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**OPERATION AND MAINTENANCE REPORT
FIRST QUARTER 2013**

**DELATTE METALS SUPERFUND SITE
PONCHATOULA, TANGIPAHOA PARISH, LOUISIANA
AGENCY INTEREST NO. 2328**

**DATE SUBMITTED:
MAY 6, 2013**

**OPERATION AND MAINTENANCE REPORT
FIRST QUARTER 2013
AGENCY INTEREST NO. 2328**

PREPARED FOR

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1.0 INTRODUCTION AND BACKGROUND

SEMS, Inc. (SEMS) was selected by the Louisiana Department of Environmental Quality (LDEQ) for the continued Operations and Maintenance (O&M) at the Delatte Metals Superfund Site, in Tangipahoa Parish, Ponchatoula, Louisiana in accordance with the bid specifications associated with state solicitation number 2250314 and purchase order number 3756521. The Delatte Metals Superfund Site is currently under quarterly O&M including groundwater sampling to determine if constituents of concern (COCs) remediated at the site are in a declining condition and to ensure that COCs are not migrating horizontally past the permeable reactive barrier (PRB) or vertically into lower water bearing zones. This report summarizes the site activities conducted during this quarter. A facility map depicting the well locations and site features is presented as Figure 1. A brief status and history of the site are provided below.

The physical location of the site is approximately 5.5 miles south-southeast of Hammond, Louisiana, 1.5 miles southeast of Ponchatoula, Louisiana, and adjacent to the new Delatte Recycling, LLC (19113 Weinberger Road, Ponchatoula, Louisiana). The site lies to the north of Weinberger Road, in a rural area with numerous residences within a one-mile radius of the site. The latitude and longitude for the site are 30°25'16"N and 90°24'39"W, respectively. The site is bounded by Weinberger Road followed by residences to the south, drainage ditches and residences to the north and east, and Selser's Creek and a residence to the west.

According to previous reports, the 19-acre Delatte Metals Superfund Site includes the Delatte Metals, Inc. facility and the abandoned North Ponchatoula Battery Facility which performed identical lead salvage operations and generated the same type of waste. Delatte Metals, Inc., which operated a lead smelter to recover additional lead materials, began operation in the early 1970's as the Fuscia Battery Company and ceased operations in 1993. The Ponchatoula Battery Company moved its operation adjacent to the Delatte and Fuscia Battery Company between 1972 and 1978.

During LDEQ and EPA investigations, discharge from the facilities showed a pH range from 0.55 to 2 standard units (s.u.). Analytical samples from on-site soil and groundwater samples indicated the presence of heavy metals including Lead, Arsenic, and Cadmium. An observed

release of Lead and Cadmium to Selser's Creek was documented by the analytical data from the sediment samples collected at three probable points of entry.

Remedial action (RA) operations began on November 18, 2002, and the implementation was completed on September 22, 2003. During the RA, the principle threat wastes were excavated, immobilized, and transported off-site for disposal. A permeable reactive barrier wall (PRB) was installed to neutralize the acidity of the shallow water-bearing zone and limit the migration of dissolved metals. A long-term groundwater monitoring program was put in place to ensure the effectiveness of the selected remedy. Long-term groundwater monitoring of approximately 31 monitoring and water wells includes sampling to monitor the metal concentrations and pH in the site groundwater. For the RA to be effective the groundwater downgradient of the PRB should be approaching pH neutrality and the metal concentrations in groundwater should demonstrate either a stable or preferably decreasing trend.

Three distinct and local water bearing zones (WBZ) were identified at the site during previous investigations. The three WBZ are located at the site from ground surface to approximately 100 feet below ground surface (ft-bgs).

- The First WBZ is generally found between 5 and 15 ft-bgs. This zone is semi-confined on its sides and is overlain by sandy/silty clay across the northern section of the site. During the Remedial Investigation (RI), a clay unit was encountered underneath this First WBZ. Currently nine monitor wells are screened in this zone. This WBZ was previously classified according to RECAP as a Class 3B aquifer.
- The Second WBZ encountered at the site generally consists of intermittent layers of gray, tan, and orange clayey silt. At various locations, this WBZ is typically encountered between 15 and 40 ft-bgs. The Second WBZ appears to be confined and relatively continuous across the site. Currently 13 monitor wells are screened in this zone. This WBZ was previously classified according to RECAP as a Class 2C aquifer.

- The Third WBZ encountered at the site consists of light brown to gray silty sand and sand. During the RI, this Third WBZ was encountered between 58 and 62 ft-bgs, extending to the maximum depth of the site borings (100 ft-bgs). The Third WBZ appears to be confined and continuous across the site. There are currently four monitor wells screened in this zone. This WBZ was previously classified according to RECAP as a Class 1B aquifer.

The monitor wells installed in these WBZs and their construction details are summarized in Table 1. Underneath the three local WBZs identified at the site are three regional aquifers: The Shallow Aquifer (also known as the Upland Terrace Aquifer), the Ponchatoula Aquifer (which is subdivided into two units: the upper and lower Ponchatoula Aquifers), and the Tchefuncte Aquifer. Five water wells are also being sampled from below the third water bearing zone and a summary of the water well characteristics is provided as Table 2.

2.0 CHRONOLOGY OF EVENTS

A chronology of events is as follows:

- October 26, 2010 – SEMS received award for O&M from LDEQ.
- November 15, 2010 – SEMS attended the Post-Award Conference with the LDEQ to discuss upcoming site activities.
- December 1, 2010 – SEMS submitted the draft Quality Assurance Project Plan (QAPP) for Delatte Metals to the LDEQ.
- December 13 through 15, 2010 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- January 31, 2011 – SEMS submitted the Final QAPP for Delatte Metals to LDEQ for approval.
- January 31, 2011 – SEMS submitted the Operation and Maintenance Report - Fourth Quarter 2010 to LDEQ for approval.
- February 14 through 16, 2011 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- March 15, 2011 – LDEQ requested updates to the QAPP submitted on January 31, 2011.

- April 29, 2011 – SEMS submitted an updated QAPP for Delatte Metals based on LDEQ’s request.
- April 29, 2011 – SEMS submitted the Operation and Maintenance Report – First Quarter 2011 to LDEQ for approval.
- May 31 through June 2, 2011 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- July 31, 2011 – SEMS submitted the Operation and Maintenance Report - Second Quarter 2011 to the LDEQ for approval.
- August 22 through 24, 2011 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- October 14, 2011 – SEMS mobilized to the site and disposed of the purge water and PPE drums from the prior sampling events.
- October 28, 2011 – SEMS submitted the Operation and Maintenance Report – Third Quarter 2011 to the LDEQ for approval. The Recommended Annual O&M/ Remedy Evaluation Checklist for this year was submitted.
- November 14 through 16, 2011 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- January 31, 2012 – SEMS submitted the Operation and Maintenance Report – Fourth Quarter 2011 to the LDEQ for approval.
- February 27 through 29, 2012 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- April 30, 2012 – SEMS submitted the Operation and Maintenance Report – First Quarter 2012 to the LDEQ for approval.
- May 7 through 9, 2012 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- July 31, 2012 – SEMS submitted the Operation and Maintenance Report – Second Quarter 2012 to the LDEQ for approval.
- August 20-22, and 24 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- September 27, 2012 – SEMS mobilized to the site for disposal of purgewater and PPE from prior groundwater sampling events.

- November 9, 2012 – SEMS submitted the Operation and Maintenance Report – Third Quarter 2012 to the LDEQ for approval. The Recommended Annual O&M/ Remedy Evaluation Checklist for this year was submitted.
- December 12-14, 2012 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- January 31, 2013 – SEMS submitted the Operation and Maintenance Report – Fourth Quarter 2012 to the LDEQ for approval.
- February 18-21, 2013 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- May 3, 2013 – SEMS submitted the Operation and Maintenance Report – First Quarter 2013 to the LDEQ for approval.

3.0 OPERATION AND MAINTENANCE ACTIVITIES

On February 18th through 21st of 2013, SEMS mobilized to the site and performed quarterly groundwater sampling, including the inspection of the monitor wells and the PRB. Details of activities performed at the site are summarized below.

3.1 ACCESS TO WELLS

Clearing was performed prior to this sampling event to provide access to the wells.

3.2 MONITOR WELL INSPECTION

The monitor wells were inspected during the groundwater sampling event for damage. Table 1 includes a listing of the monitoring wells at the site, and Figure 1 shows the locations of the wells. The monitor well inspection checklist is included with the field data in Attachment A. Padlocks were replaced at monitor wells MW-01, MW-03, MW-06, and PW-04. No deficiencies were noticed during this sampling event.

3.3 PERMEABLE REACTIVE BARRIER (PRB) INSPECTION

The PRB was cleared by the LDEQ Contractor prior to the current sampling event. SEMS inspected the condition of the PRB during the current sampling event and noted the following:

- No cracks or erosion were observed
- No fill is required in the PRB at this time.

The PRB will continue to be monitored quarterly.

3.4 REVIEW OF INSTITUTIONAL CONTROLS

Inspections were made of deed files 650403, 674854, and 674853 online at the Tangipahoa website (www.tangiclerk.org) for the institutional controls limiting site reuse to an industrial scenario at the Tangipahoa Parish Clerk of Court. A review of these files showed that they are still on file with the Tangipahoa Parish Clerk of Court.

3.5 GROUNDWATER MONITORING, SAMPLING, AND ANALYTICAL PROCEDURES

During the quarterly sampling events a total of 26 monitoring wells and five (5) water wells were sampled. Some of these water wells are drinking water wells located at residences. It should be noted that the location of the (b) (6) WELL was not added to the facility map, but is located approximately 400 feet east of WW-04.

The monitoring wells were located and opened to allow for water level equilibration. After equilibration, depth-to-water was measured to the nearest one-hundredth of a foot with an interface probe. The interface probe was decontaminated prior to on-site work, between each well, and after fluid level measurements were completed. Fluid level measurements are summarized in Table 3.

Following gauging, the wells were purged via low flow micro purging technique with a peristaltic pump (Geopump) using dedicated tubing. The purge rates were maintained between 0.1 and 0.5 liters per minute and were recorded on field forms. The water quality readings were taken from the low flow cell and recorded on the field forms. Groundwater samples were collected following the stabilization of at least three of the following water quality parameters: temperature, pH, conductivity, turbidity, oxidation-reduction potential, and dissolved oxygen. The water quality parameters are summarized on Table 3. The five (5) water wells were sampled after the water was allowed to flow for 20 minutes.

Groundwater samples were collected prior to entry into the low flow cell and placed in laboratory-supplied, pre-preserved containers. Quality Assurance/Quality Control (QA/QC) samples were also collected that included four duplicates, two matrix spikes, and two matrix spike duplicates. The groundwater and QA/QC sample containers were labeled and placed in a cooler on ice for transportation to Accutest Laboratories in Scott, Louisiana for analysis. The samples were shipped accompanied by proper chain-of-custody documentation.

Groundwater samples were analyzed for Total Metals including arsenic, cadmium, lead, manganese, nickel, thallium, and zinc via method SW6020 or SW6010. Monitor wells DW-01 and BA-01 had turbidity readings above 10 NTU during sampling and additional samples were field filtered and analyzed for dissolved metals. Dissolved metals analytical results were used to supersede the total metals results on the attached figures and historical graphs. Summaries of groundwater analytical data are provided in Table 4 and are further discussed in Section 4.0. A copy of the laboratory reports and chain-of-custody documentation are included in Attachment B.

Groundwater collected at the site during low-flow sampling was contained in a 55-gallon plastic drum and stored at the site south of the “North Well” water well. The personal protective equipment, tubing, and other disposable material that contacted the groundwater at the site are stored in a 55-gallon metal drum. Copies of drum disposal manifests for this quarter, if applicable, are included in Attachment A.

It should be noted that additional drums and investigation-derived waste that are generated by the United States Geological Survey (USGS) are located adjacent to the drum storage area. The USGS will maintain their drums from their groundwater sampling events.

4.0 ANALYTICAL DATA REVIEW

Below is a summary of SEMS review of the potentiometric and analytical data collected during the current quarter.

4.1 CURRENT MONITORING PERIOD GROUNDWATER FLOW DIRECTION

Potentiometric maps were prepared for each of the three WBZ. The First, Second, and Third WBZ potentiometric maps are presented as Figures 2A, 2B, and 2C respectively. Potentiometric maps show that the groundwater flow direction for this quarter as described below:

First WBZ: The groundwater flow direction appears to be to the north to northwest towards the unnamed creek that flows into Selser's Creek.

Second WBZ: In the area of the PRB, the groundwater flow direction appears to be to the north to northwest towards the unnamed creek that flows into Selser's Creek. In the area just north of the current Delatte Metals facility, the groundwater trends to the west towards Selser's Creek.

Third WBZ: The groundwater flow direction appears to be to east.

The current period groundwater flow directions are consistent with historic monitoring results and the directions of flow have not changed.

4.2 CURRENT PERIOD CONSTITUENT CONCENTRATION

A file review was performed and only Site Cleanup levels for pH and lead were found. The lead and pH Site Cleanup levels according to the QAPP prepared for the EPA in September 28, 2004

were 0.015 mg/L and 7.0 s.u., respectively. Since a perfect pH of 7.0 s.u. is not practically obtainable, SEMS recommends that an alternative pH be used for the acceptable pH level. The EPA acceptable range for drinking water is 6.5-8.5 s.u., and the acceptable EPA range for storm water discharge is 6.0-9.0 s.u. SEMS will evaluate the First WBZ using the 6.0-9.0 s.u. range for pH since the groundwater of this zone is classified as Groundwater Class 3B. The Second WBZ, Third WBZ, and Water Wells are classified as Groundwater Class 1 and 2 aquifers and their pH will be evaluated using the 6.5-8.5 s.u. range for pH. According to the LDEQ, the LDEQ RECAP Screening Standards (SS) should be used for comparison to the other site COCs.

Below is a brief summary of all COCs exceeding the applicable site SS:

The following wells were outside their EPA acceptable pH range:

- **First WBZ:** All monitor wells in the First WBZ were below the EPA acceptable pH range of 6.0-9.0 s.u.; pH readings ranged from 3.11 to 4.44 s.u.
- **Second WBZ:** Monitor wells MW-04, BA-01, and BA-05 were below the EPA acceptable pH range of 6.5-8.5 s.u. with a minimum pH reading of 6.15 s.u. in monitor well BA-01.
- **Third WBZ:** Monitor well BB-01 was above the EPA acceptable pH range of 6.5-8.5 s.u. with a pH reading of 9.82 s.u.
- **Water Wells:** The (b) (6) Well, WW-04, and the North Well were above the EPA acceptable pH range of 6.5-8.5 s.u. with a maximum pH reading of 9.11 s.u. in water well WW-04.

The following wells exhibited arsenic concentrations above the RECAP SS of 0.010 mg/L:

- **First WBZ:** Monitor wells DW-01, DW-02, DW-03, MW-01, and BA-09 were above the arsenic RECAP SS; the highest arsenic concentration was reported to be 0.207 mg/L in monitor well DW-01.
- **Second WBZ:** No monitor wells sampled were reported above the arsenic RECAP SS; the highest arsenic concentration was reported to be 0.0025 mg/L in monitor well BA-05.

- **Third WBZ:** No monitor wells sampled were reported above the arsenic RECAP SS; the highest arsenic concentration was reported to be 0.0085 mg/L in monitor well BA-01A.
- **Water Wells:** No water wells sampled were reported above the arsenic RECAP SS; all results were reported non-detect for arsenic.

The following wells exhibited cadmium concentrations above the RECAP SS of 0.005 mg/L:

- **First WBZ:** Monitor wells DW-01, DW-02, MW-01, MW-02, MW-06, and BA-03, were reported above the cadmium RECAP SS. The highest cadmium concentration was reported to be 0.0699 mg/L in monitor well BA-03.
- **Second WBZ:** No monitor wells sampled were reported above the cadmium RECAP SS; all results were reported non-detect for cadmium.
- **Third WBZ:** No monitor wells sampled were reported above the cadmium RECAP SS; all results were reported non-detect for cadmium.
- **Water Wells:** No water wells sampled were reported above the cadmium RECAP SS; all results were reported non-detect for cadmium.

The following wells exhibited lead concentrations above the site cleanup level of 0.015 mg/L:

- **First WBZ:** Monitors well DW-01, DW-02, DW-03, and BA-03 were reported above the site cleanup level for lead; the highest lead concentration was reported to be 0.076 mg/L in monitor well BA-03.
- **Second WBZ:** No monitor wells sampled were reported above the site cleanup level for lead; the highest lead concentration was reported to be 0.015 mg/L in monitor well BC-17.
- **Third WBZ:** No monitor wells sampled were reported above the site cleanup level for lead; the highest lead concentration was reported to be 0.0053 mg/L in monitor well BB-01.
- **Water Wells:** No water wells sampled were reported above the site cleanup level for lead. The highest reported lead concentration was reported to be 0.0012 mg/L in the (b) (6) Well.

The following wells exhibited manganese concentrations above the RECAP SS of 0.51 mg/L:

- **First WBZ:** All monitor wells were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 16.2 mg/L in monitor well DW-02.
- **Second WBZ:** Monitor wells BA-01 and BA-05 were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 17.7 mg/L in monitor well BA-05.
- **Third WBZ:** No monitor wells sampled were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 0.0394 mg/L in monitor well BA-03A.
- **Water Wells:** No water wells sampled were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 0.0243 mg/L in the (b) (6) Well.

The following wells exhibited nickel concentrations above the RECAP SS of 0.073 mg/L:

- **First WBZ:** Monitor wells DW-02, DW-03, MW-01, and BA-09 were reported above the nickel RECAP SS; the highest nickel concentration was reported to be 0.668 mg/L in monitor well DW-02.
- **Second WBZ:** Monitor well BA-05 was reported above the nickel RECAP SS with a nickel concentration of 0.0785 mg/L.
- **Third WBZ:** No monitor wells sampled were reported above the nickel RECAP SS; all nickel concentrations were reported to be non-detect.
- **Water Wells:** No water wells sampled were reported above the nickel RECAP SS; all nickel concentrations were reported to be non-detect.

The following wells exhibited thallium concentrations above the RECAP SS of 0.0020 mg/L:

- **First WBZ:** No monitor wells sampled were reported above the thallium RECAP SS; all thallium concentrations were reported to be non-detect.
- **Second WBZ:** Monitor well BC-07 was reported above the thallium RECAP SS with an elevated non-detect thallium concentration.

- **Third WBZ:** No monitor wells sampled were reported above the thallium RECAP SS; all thallium concentrations were reported to be non-detect.
- **Water Wells:** No water wells sampled were reported above the thallium RECAP SS; all thallium concentrations were reported to be non-detect.

The following wells exhibited zinc concentrations above the RECAP SS of 1.1 mg/L:

- **First WBZ:** Monitor well DW-02 was reported above the zinc RECAP SS with a zinc concentration of 2.13 mg/L.
- **Second WBZ:** No monitor wells were reported above the zinc RECAP SS; the highest zinc concentration was reported to be 0.0923 mg/L in monitor well BA-01.
- **Third WBZ:** No monitor wells were reported above the zinc RECAP SS; all zinc concentrations were reported to be non-detect.
- **Water Wells:** No water wells sampled were reported above the zinc RECAP SS; all zinc concentrations were reported to be non-detect.

Analytical results for this quarter are summarized in Table 4. Isoconcentration maps prepared for each WBZ and the water wells are presented as Figures 3A through 10D. Following a review of the isoconcentration maps the following constituents were found to not be horizontally delineated to their applicable site SS:

- The First WBZ – pH, arsenic, cadmium, lead, manganese, nickel, and zinc
- The Second WBZ – pH, manganese, and nickel
- The Third WBZ – pH
- The Water Wells – pH

The EPA has contracted the USGS to continue with this sampling and reporting of the downgradient PRB piezometers. The USGS is submitting this data separately to the EPA for review.

4.3 HISTORICAL GROUNDWATER MONITORING TRENDS

A historical summary of the groundwater analytical and potentiometric data from the past eight quarters is presented in Table 5. Historical data trend graphs are presented in Attachment C that show pH, arsenic, cadmium, lead, manganese, nickel, thallium, and zinc concentrations over time. For graphing purposes, the reporting limit was used in place of all non-detected concentrations. The historical data trend graphs were completed in Excel and a linear regression trendline was generated by Excel using the previous eight quarters of data for each COC.

Only those wells with at least two quarters of analytical data exceeding site cleanup or RECAP SS are considered in the trend evaluation. A review of the graphs and evaluation of constituent trends provides the information below:

First WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead: Increasing: DW-02

Decreasing: DW-03 and BA-03

Stable: MW-01

Arsenic: Increasing: BA-09

Decreasing: DW-01 and DW-03

Stable: DW-02 and MW-01

Manganese: Increasing: DW-01, DW-02, PW-04, MW-01, MW-06, and BA-09

Decreasing: DW-03, MW-02, and BA-03

Nickel: Increasing: DW-02, MW-01, and BA-09

Decreasing: DW-03 and BA-03

Thallium: No exceedances observed for any two of the previous eight quarters sampled.

Cadmium: Increasing: DW-02 and MW-01

Decreasing: MW-02, MW-06, and BA-03

Zinc: Increasing: DW-02

pH: Below 6.0 s.u. and increasing: DW-03 and BA-03

Below 6.0 s.u. and decreasing: DW-01, MW-01, MW-06, PW-04, and BA-09

Below 6.0 s.u. and stable: DW-02 and MW-02

Second WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead: Decreasing: BC-17

Manganese: Increasing: BA-05

Decreasing: MW-03 and BA-01

Nickel: Increasing: BA-05

Arsenic, Cadmium, Thallium, and Zinc:

No exceedances observed for any two of the previous eight quarters sampled.

pH: Below 6.5 s.u. and decreasing: BA-05

Below 6.5 s.u. and stable: BA-01

Third WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead, Arsenic, Manganese, Nickel, Thallium, Cadmium, and Zinc: No exceedances observed for any two of the previous eight quarters sampled.

pH: Above 8.5 s.u. and stable: BB-01

Water Well Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead, Arsenic, Manganese, Nickel, Thallium, Cadmium, and Zinc: No exceedances observed for any two of the previous eight quarters sampled.

pH: Above 8.5 s.u. and decreasing: WW-04, North Well, and South Well

First Water Bearing Zone and PRB Observations

Long term trends of monitor wells in the first water bearing zone were evaluated from 2006 to present to determine if the PRB is effectively increasing the pH towards neutrality. Two upgradient wells (BA-03 and DW-02) and two downgradient wells (MW-01 and DW-01) were chosen to evaluate the effectiveness of the PRB. Additionally, a monitor well (DW-03) outside of the PRB was evaluated. These graphs are included in Attachment C. The following significant long term observations have been noted:

- The two upgradient monitor wells (BA-03 and DW-02) show that the pH has been decreasing since 2006.

- The monitor well outside of the PRB (DW-03) is also showing decreasing trends for pH since 2006.
- The downgradient monitor well DW-01 shows that the PRB has been increasing the pH at this location since 2006.
- The downgradient monitor well MW-01 shows that the PRB has no apparent effect on this well. The pH at this location appears to be decreasing since 2006 and may be affected by another source.

It should be noted that additional downgradient monitoring and sampling of the PRB is being performed by the USGS. This information can be used to make a better determination on the effectiveness of the PRB.

Water Well Observations

Since the water wells evaluated offsite have had exceedances for pH, the trends for pH have been evaluated from 2006 to present for water wells WW-09 and WW-04 and from 2008 to present for the (b) (6) Well. These additional graphs are provided in Attachment C. The trend for WW-09 shows that the pH is decreasing (8.7 s.u. to 7.8 s.u.) and approaching neutrality while the pH of WW-04 and the (b) (6) Well are both increasing (8.4 s.u to 8.8 s.u. and 7.9 s.u. to 8.5 s.u., respectively). The groundwater in the third water bearing zone flows to the east. The cause for the changes in the pH at these water wells is unknown.

4.4 QUALITY ASSURANCE/QUALITY CONTROL AND UNUSUAL FINDINGS

A summary of QA/QC samples collected is included in the field data sheets presented in Attachment A. Blank samples included Duplicate #1 (BB-01), Duplicate #2 (BA-09A), Duplicate #3 (BC-03), and Duplicate #4 (BA-05A). All QA/QC duplicate sample analytical results were reported within a factor of 10 of the original analytical sample results. All data sets were accepted. Full laboratory analytical reports are included in Attachment B. Each laboratory analytical report includes laboratory QA/QC documentation.

The analytical data was reviewed by TerraBase Incorporated (TerraBase), a third party data validator. TerraBase reviewed ten percent of the samples analyzed including samples DW-01, MW-03, BC-25, and BA-01A. The data validation report made no changes to results of this report. No discrepancies were found in the data validation report, which is included in Attachment D. The Level IV analytical report is attached to this report with a compact disk (CD) in an electronic format as requested by LDEQ.

The following unusual findings were noted during this report:

- The thallium concentration at monitor well BC-07 was reported non-detect with a detection limit above the RECAP SS for thallium.
- The laboratory, Accutest, has experienced detrimental instrument issues during previous quarters when attempting to run samples with high sodium concentrations. To preserve the instrument, the samples were diluted which resulted in elevated non-detect results as some sample locations. To resolve this issue, all samples were analyzed by the LDEQ-compliant, Accutest-Mid Atlantic Laboratory in Dayton, New Jersey. As a result, only one non-detected concentration was reported with detection limits above its applicable limiting standard.
- The cadmium, manganese, and zinc concentrations at monitor well DW-01 were higher than they have historically been during the current quarter. The cause for the elevated concentrations is unknown, but one possible cause is that turbidity did not stabilize within a ten percent range of its last three readings at the time of sample collection as recommended by the EPA low-flow guidance documents. Proper care will be taken during future sampling events to assure that adherence to low flow sampling procedures is maintained.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on evaluation of data presented within this groundwater monitoring report.

- SEMS recommends continuing with quarterly O&M.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

(Page 1 of 2)

Well ID	Northing	Easting	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Casing Elevation (NGVD)	Ground Surface Elevation (NGVD)	Screened Interval Elevation (NGVD)	Screened Interval (ft bgs)
First Water-Bearing Zone										
DW-1	701226.57	3571439.3	30° 25' 30"	90° 24' 41"	2	19	13.36	12.03	3.5 to -6.5	8.5 to 18.5
DW-2	700994.96	3571554.5	30° 25' 28"	90° 24' 39"	2	11	14.12	12.65	7.2 to 2.2	5.5 to 10.5
DW-3	701096.8	3571730.9	30° 25' 29"	90° 24' 37"	2	16	11.59	10.09	4.6 to -5.4	5.5 to 15.5
MW-1	701242.6	3571218.6	30° 25' 30"	90° 24' 43"	2	28.5	15.08	13.58	0.6 to -14.4	13.0 to 28.0
MW-2	700954.99	3571119.9	30° 25' 27"	90° 24' 44"	2	10.5	14.23	11.79	6.8 to 1.8	5.0 to 10.0
MW-6	700833.83	3571351.4	30° 25' 26"	90° 24' 42"	2	16.5	16.77	15.17	NA	NA
MW-7*	701240.79	3571056.2	30° 25' 30"	90° 24' 45"	2	15	8.21	6.01	NA	NA
PW-4	701018.61	3571950.1	30° 25' 28"	90° 24' 35"	2	19.5	12.22	8.96	NA	NA
BA-03	701018.61	3571248.6	30° 25' 28"	90° 24' 43"	2	13.5	14.57	11.8	8.80 to -1.20	3.0 to 13.0
BA-09	701286.58	3571522.6	30° 25' 31"	90° 24' 40"	2	18.0	9.46	8.10	0.60 to -9.40	7.5 to 17.5
BC-31*	701305.48	3571090.6	30° 25' 31"	90° 24' 48"	2	16	11.36	8.75	3.25 to -6.75	5.5 to 15.5
Second Water-Bearing Zone										
DW-4	7000081.4	3571557.4	30° 25' 19"	90° 24' 39"	2	38	14.21	13	-14.5 to -24.5	27.5 to 37.5
MW-A	701114.99	3571481.7	30° 25' 29"	90° 24' 40"	2	27.0	15.12	12.35	-4.2 to -14.2	16.5 to 26.5
MW-3	700801.96	3571573.60	30° 25' 26"	90° 24' 39"	2	27.5	14.8	12.83	-4.2 to 14.2	17.0 to 27.0
MW-4	701248.27	357817.05	30° 25' 30"	90° 24' 36"	2	24.0	17.38	14.67	1.2 to -8.8	13.5 to 23.5
MW-5*	701508.89	3571524.3	30° 25' 33"	90° 24' 40"	2	20.0	11.43	8.89	-5.6 to -10.6	14.5 to 19.5

Notes: 1) ft bgs = Feet below ground surface

2) ID = Identification

3) NA= Not available

4) NGVD = National Geodetic Vertical Datum

5) Denotes Well Plugged and Abandoned by the EPA

TABLE 1
MONITORING WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

(Page 2 of 2)

Well ID	Northing	Easting	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Casing Elevation (NGVD)	Ground Surface Elevation (NGVD)	Screened Interval Elevation (NGVD)	Screened Interval (ft bgs)
Second Water-Bearing Zone										
BA-01	700965.85	3571654	30° 25' 27"	90° 24' 38"	2	26.0	14.57	11.48	-4.02 to -14.02	15.5 to 25.5
BA-05	701084.30	3571574.7	30° 25' 29"	90° 24' 39"	2	18.5	14.20	11.02	3.02 to -6.98	8.0 to 18.0
BA-09A	701290.47	3571515.1	30° 25' 31"	90° 24' 40"	2	42.0	11.10	7.92	-23.58 to -33.58	31.5 to 41.5
BC-01*	699516.45	3571517.6	30° 25' 13"	90° 24' 40"	2	26.5	15.99	13.35	-2.65 to -12.65	16.0 to 26.0
BC-03	699684.61	3571900.1	30° 25' 15"	90° 24' 36"	2	28.0	16.32	13.78	-3.72 to -13.72	17.5 to 27.5
BC-07	699855.32	3571454.1	30° 25' 16"	90° 24' 41"	2	18.5	11.37	8.19	0.19 to -9.81	8.0 to 18.0
BC-11*	699967.64	3571524.00	30° 25' 18"	90° 24' 40"	2	28.5	15.72	12.53	-5.47 to -15.47	18.0 to 28.0
BC-17	700232.77	3571685.2	30° 25' 20"	90° 24' 38"	2	28.0	15.18	12.22	-5.28 to -15.28	17.5 to 27.5
BC-19	700257.08	3571479.8	30° 25' 20"	90° 24' 40"	2	22.5	13.85	10.92	-1.08 to -11.08	12.0 to 22.0
BC-21R	700499.25	3571655.5	30° 25' 23"	90° 24' 38"	2	17.5	15.28	12.62	0.62 to -4.38	12.0 to 17.0
BC-25	700599.29	3571504.10	30° 25' 24"	90° 24' 40"	2	32.0	15.73	12.66	-8.84 to -18.84	21.5 to 31.5
BC-27*	700721.57	3571738.1	30° 25' 25"	90° 24' 37"	2	28.0	15.91	13.04	-4.46 to -14.46	17.5 to 27.5
Third-Water-Bearing Zone										
BA-03A	701004.96	3571249.7	30° 25' 43"	90° 24' 43"	2	100.0	14.76	11.72	-77.78 to -87.78	89.5 to 99.5
BA-05A	701085.48	3571565.3	30° 25' 29"	90° 24' 39"	2	54.0	14.42	11.16	-24.84 to -28.34	36.0 to 39.5
BB-01	699827.30	3571572.4	30° 25' 16"	90° 24' 39"	2	96.0	15.75	12.69	-72.81 to -82.81	85.5 to 95.5
BA-01A	700957.45	3571661.4	30° 25' 27"	90° 24' 38"	2	46.0	15.03	11.61	-23.89 to -33.89	35.5 to 45.5

Notes: 1) ft bgs = Feet below ground surface

2) ID = Identification

3) NA= Not available

4) NGVD = National Geodetic Vertical Datum

5) Denotes Well Plugged and Abandoned by the EPA

TABLE 2
WATER WELL CONSTRUCTION DATA
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Well ID	Address	Depth (feet)	Date Installed
WW-04*	39229 Keaghey Road Ponchatoula, LA 70454	Unknown	Unknown
WW-09*	39233 Keaghey Road Ponchatoula. LA70454	60	10/94
North Well	19119 Weinberger Road Ponchatoula. LA 70454	Unknown	Unknown
South Well	19113 Weinberger Road Ponchatoula, LA 70454	Unknown	Unknown
(b) (6) Well**	Keaghey Road Ponchatoula. LA70454	Unknown	Unknown

Notes: Water Well

*Designations for water wells WW-04 and WW-09 were obtained from the
Delatte Metals Remedial Investigation Report (Tetra Tech 2000)

**Designation was named in field based on current owners name

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Standard Units)	ORP (mV)	Turbidity (NTU)
FIRST WATER-BEARING ZONE									
DW-01									
May-11	13.36	11.28	2.08	21.74	0.532	0.23	5.83	-152	4.8
August-11	13.36	12.20	1.16	24.91	0.444	2.65	5.90	-56	9.1
November-11	13.36	11.70	1.66	23.87	1.111	0.20	5.48	-110	5.5
February-12	13.36	10.44	2.92	21.05	0.853	3.38	5.59	-9	8.6
May-12	13.36	10.90	2.46	21.23	0.592	0.22	5.73	-58	8.5
August-12	13.36	11.12	2.24	24.06	0.822	0.17	5.10	-135	16.0
December-12	13.36	11.09	2.27	22.08	0.687	0.22	5.77	-141	0
February-13	13.36	9.48	3.88	19.04	1.73	0.23	4.44	240	18.8
DW-02									
May-11	14.12	6.30	7.82	27.07	6.580	0.30	2.80	83	0.0
August-11	14.12	6.22	7.90	30.69	6.51	0.19	2.98	15	0.0
November-11	14.12	6.60	7.52	24.04	6.35	0.50	2.94	39	0.0
February-12	14.12	4.55	9.57	18.49	5.85	2.98	3.05	79	0.0
May-12	14.12	4.65	9.47	24.73	6.74	0.23	2.92	28	0.0
August-12	14.12	4.40	9.72	29.11	6.34	0.22	2.73	-10	1.6
December-12	14.12	4.65	9.47	20.30	6.63	0.30	2.83	56	0
February-13	14.12	3.45	10.67	16.70	5.14	0.75	3.11	212	6.7
DW-03									
May-11	11.59	6.85	4.74	22.30	2.44	0.17	3.47	-88	0.0
August-11	11.59	7.60	3.99	25.33	2.20	0.13	3.73	-76	6.9
November-11	11.59	7.14	4.45	23.73	1.81	0.11	3.79	-94	4.1
February-12	11.59	4.74	6.85	19.00	0.214	3.40	3.95	349	3.4
May-12	11.59	5.66	5.93	21.76	0.377	0.20	4.42	-75	0.5
August-12	11.59	5.77	5.82	24.46	0.291	0.20	4.38	-181	2.7
December-12	11.59	6.00	5.59	20.16	0.233	0.22	4.62	-148	0
February-13	11.59	5.35	6.24	18.07	2.34	0.26	3.61	248	2.5
MW-01									
May-11	15.08	13.36	1.72	20.82	5.18	0.20	3.49	-65	0.0
August-11	15.08	13.35	1.73	24.33	3.76	1.89	3.69	69	9.7
November-11	15.08	13.72	1.36	22.33	4.71	0.15	3.43	11	7.9
February-12	15.08	13.03	2.05	22.41	4.33	2.01	3.44	74	0.0
May-12	15.08	13.34	1.74	20.65	5.13	0.18	3.35	65	0.4
August-12	15.08	13.52	1.56	21.93	5.22	0.22	3.01	4	3.1
December-12	15.08	11.75	3.33	21.54	4.69	0.24	3.35	-3	0
February-13	15.08	12.73	2.35	20.09	4.46	0.61	3.44	59	2.2
MW-02									
May-11	14.23	8.19	6.04	24.48	1.157	0.21	3.41	89	0.0
August-11	14.23	9.00	5.23	28.44	1.228	1.97	3.20	399	8.0
November-11	14.23	8.50	5.73	24.37	1.227	0.46	3.25	346	6.1
February-12	14.23	7.15	7.08	19.55	0.999	2.64	3.23	437	0.0
May-12	14.23	8.25	5.98	22.90	1.005	2.22	3.31	294	0.9
August-12	14.23	7.42	6.81	27.57	1.029	0.16	3.01	169	1.7
December-12	14.23	7.30	6.93	20.48	0.860	0.76	3.29	378	0
February-13	14.23	6.68	7.55	17.24	0.972	0.58	3.37	414	5.3
MW-06									
May-11	16.77	9.86	6.91	20.00	0.566	0.53	3.82	221	0.6
August-11	16.77	10.40	6.37	21.92	0.857	0.26	3.73	390	2.3
November-11	16.77	10.14	6.63	20.95	0.845	0.42	3.67	364	5.3
February-12	16.77	7.71	9.06	17.82	0.651	3.03	3.65	341	4.6
May-12	16.77	8.44	8.33	19.70	0.600	0.92	3.59	99	9.3
August-12	16.77	9.03	7.74	22.28	1.10	1.45	3.62	352	0.0
December-12	16.77	8.70	8.07	19.44	0.794	0.57	3.52	335	0
February-13	16.77	7.23	9.54	18.70	0.764	0.82	3.42	427	6.8

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Standard Units)	ORP (mV)	Turbidity (NTU)
FIRST WATER-BEARING ZONE (continued)									
PW-04									
May-11	12.22	6.84	5.38	21.75	1.570	0.19	3.83	-69	0.1
August-11	12.22	7.68	4.54	24.18	0.782	0.14	4.07	-38	0.0
November-11	12.22	7.28	4.94	22.17	0.661	0.17	4.05	-46	1.7
February-12	12.22	5.21	7.01	19.20	0.523	4.88	4.14	77	0.2
May-12	12.22	5.41	6.81	21.32	1.071	0.17	4.08	-35	0.0
August-12	12.22	5.56	6.66	23.33	0.610	0.16	3.72	-89	2.1
December-12	12.22	5.60	6.62	19.56	1.222	0.23	3.69	67	0
February-13	12.22	3.93	8.29	18.12	0.914	0.28	3.97	314	2.2
BA-03									
May-11	14.57	7.92	6.65	24.55	2.08	0.39	3.38	404	0.3
August-11	14.57	8.74	5.83	28.75	1.009	1.49	3.79	295	5.5
November-11	14.57	8.34	6.23	24.50	1.240	0.24	3.47	411	1.6
February-12	14.57	6.74	7.83	19.99	1.028	5.40	3.99	269	9.0
May-12	14.57	6.85	7.72	24.69	0.333	2.00	3.95	216	13.5
August-12	14.57	7.21	7.36	28.39	0.513	2.30	4.22	146	9.7
December-12	14.57	7.00	7.57	20.64	0.199	1.72	4.60	28	2
February-13	14.57	6.12	8.45	16.97	0.676	3.91	4.18	412	6.1
BA-09									
May-11	9.46	8.68	0.78	21.39	3.85	0.25	3.75	-117	0.0
August-11	9.46	9.48	-0.02	23.63	3.47	0.19	3.79	-49	0.0
November-11	9.46	9.05	0.41	22.58	3.66	0.19	3.69	-61	0.0
February-12	9.46	7.95	1.51	17.21	3.62	4.27	3.34	334	7.0
May-12	9.46	8.08	1.38	21.29	3.48	3.37	3.49	42	0.9
August-12	9.46	8.56	0.90	23.10	3.85	0.25	3.27	-85	3.8
December-12	9.46	8.30	1.16	20.50	3.49	3.70	3.24	48	2
February-13	9.46	6.19	3.27	19.22	2.80	0.47	3.42	322	1.8
SECOND WATER-BEARING ZONE									
DW-04									
May-11	14.21	5.66	8.55	23.20	1.69	0.27	7.04	131	0.0
August-11	14.21	6.62	7.59	22.97	1.470	0.22	7.10	-124	0.0
November-11	14.21	7.21	7.00	22.42	1.370	0.61	7.09	276	0.6
February-12	14.21	6.00	8.21	20.44	1.165	1.73	7.18	247	1.7
May-12	14.21	5.40	8.81	21.53	1.292	0.31	7.11	102	1.1
August-12	14.21	5.80	8.41	22.28	2.18	1.13	6.42	43	0.0
December-12	14.21	5.53	8.68	20.48	1.228	3.57	7.09	150	0
February-13	14.21	4.04	10.17	19.71	1.230	7.18	7.33	140	0.5
MW-A									
May-11	15.12	10.62	4.50	21.50	0.750	5.18	6.90	45	0.0
August-11	15.12	11.25	3.87	27.33	0.681	3.19	7.01	-39	4.5
November-11	15.12	11.55	3.57	23.71	0.680	0.34	7.10	-43	0.0
February-12	15.12	10.72	4.40	21.88	0.605	4.62	7.11	-47	1.7
May-12	15.12	10.33	4.79	22.11	0.738	0.59	7.17	-44	1.2
August-12	15.12	10.55	4.57	24.19	0.784	0.35	6.47	-84	4.6
December-12	15.12	10.88	4.24	22.60	0.730	1.33	7.08	-24	0
February-13	15.12	9.50	5.62	20.66	0.730	1.02	7.22	33	1.4
MW-03									
May-11	14.80	7.91	6.89	21.24	1.97	0.25	6.60	-287	0.0
August-11	14.80	8.90	5.90	22.53	1.81	0.22	6.65	-184	0.0
November-11	14.80	9.72	5.08	21.62	1.78	0.19	6.63	-131	0.0
February-12	14.80	8.05	6.75	19.62	1.63	2.21	6.66	119	2.1
May-12	14.80	7.30	7.50	21.00	1.90	0.22	6.60	-286	1.9
August-12	14.80	7.70	7.10	22.47	4.14	1.10	7.64	-112	0.0
December-12	14.80	8.11	6.69	20.60	1.89	0.48	6.50	-90	0
February-13	14.80	6.19	8.61	19.55	1.85	0.34	6.64	187	2.6

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Standard Units)	ORP (mV)	Turbidity (NTU)
SECOND WATER-BEARING ZONE (continued)									
MW-04									
May-11	17.38	15.39	1.99	20.75	0.327	2.06	6.66	-143	2.4
August-11	17.38	16.92	0.46	21.95	0.300	1.62	6.69	-81	105
November-11	17.38	16.62	0.76	21.84	0.297	1.93	6.67	-106	14.5
February-12	17.38	14.90	2.48	17.86	0.293	4.16	6.66	103	5.4
May-12	17.38	14.45	2.93	20.58	0.320	1.68	6.59	-123	9.8
August-12	17.38	15.62	1.76	21.43	0.345	1.31	6.19	-120	15.8
December-12	17.38	14.20	3.18	19.37	0.336	1.56	6.50	-96	8
February-13	17.38	12.62	4.76	20.19	0.478	1.79	6.49	-27	4.7
BA-01									
May-11	14.57	7.61	6.96	23.32	2.58	0.20	5.90	45	75.3
August-11	14.57	8.39	6.18	24.50	2.29	0.19	6.08	-17	7.8
November-11	14.57	9.24	5.33	23.90	2.06	0.30	6.15	38	14.0
February-12	14.57	8.08	6.49	21.25	2.41	3.50	5.94	70	83.4
May-12	14.57	7.23	7.34	23.31	2.75	0.20	5.78	5	26.9
August-12	14.57	7.49	7.08	23.61	2.73	0.23	5.59	-73	7.2
December-12	14.57	8.00	6.57	22.09	2.05	1.00	5.92	71	0
February-13	14.57	5.92	8.65	20.94	1.96	0.33	6.15	21	14.2
BA-05									
May-11	14.20	8.40	5.80	24.98	5.50	4.22	6.25	-42	3.1
August-11	14.20	8.91	5.29	27.79	5.35	1.54	6.01	-31	9.8
November-11	14.20	9.39	4.81	25.90	5.69	5.28	6.49	-38	9.8
February-12	14.20	8.55	5.65	21.85	5.53	3.16	6.16	15	9.7
May-12	14.20	7.98	6.22	22.52	6.05	4.99	6.30	-28	7.7
August-12	14.20	8.10	6.10	25.07	5.36	0.18	5.73	-119	5.4
December-12	14.20	8.60	5.60	22.21	6.33	4.07	6.21	-16	8
February-13	14.20	7.36	6.84	19.71	5.36	0.37	6.26	-19	4.7
BA-09A									
May-11	11.10	1.36	9.74	21.99	0.246	0.37	7.01	98	0.0
August-11	11.10	2.03	9.07	22.74	0.223	0.24	7.00	-82	0.6
November-11	11.10	2.01	9.09	21.30	0.223	0.28	7.08	-115	0.0
February-12	11.10	1.45	9.65	16.22	0.232	5.69	6.60	128	4.7
May-12	11.10	1.47	9.63	21.31	0.233	0.72	7.01	33	1.6
August-12	11.10	1.80	9.30	21.86	0.254	0.27	6.57	-70	6.5
December-12	11.10	1.20	9.90	19.28	0.234	0.68	6.82	60	0
February-13	11.10	0.70	10.40	20.34	0.245	0.96	7.09	-11	4.2
BC-03									
May-11	16.32	6.87	9.45	23.85	3.39	0.25	7.04	-127	0.0
August-11	16.32	8.29	8.03	24.58	3.08	0.31	7.10	-130	0.0
November-11	16.32	9.19	7.13	24.06	3.07	0.51	7.12	-157	0.0
February-12	16.32	7.90	8.42	19.91	2.92	3.31	7.06	72	5.7
May-12	16.32	6.49	9.83	23.40	3.31	0.36	7.12	-55	2.2
August-12	16.32	6.98	9.34	24.10	3.45	0.23	7.02	-150	3.3
December-12	16.32	6.75	9.57	22.03	3.20	3.93	7.16	-68	0
February-13	16.32	4.06	12.26	19.93	3.07	1.69	7.14	148	2.2
BC-07									
May-11	11.37	5.58	5.79	21.65	2.42	1.65	7.15	372	0.0
August-11	11.37	5.95	5.42	23.83	2.25	0.58	7.13	129	0.0
November-11	11.37	7.39	3.98	22.87	2.23	5.61	7.44	520	0.0
February-12	11.37	3.91	7.46	17.53	2.14	2.93	7.21	430	0.0
May-12	11.37	4.00	7.37	20.68	2.41	0.37	7.12	416	0.9
August-12	11.37	4.09	7.28	24.03	2.53	0.22	6.43	-50	2.2
December-12	11.37	6.50	4.87	18.92	2.26	1.51	6.93	527	4
February-13	11.37	2.50	8.87	17.99	2.47	1.68	6.60	420	6.7

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Standard Units)	ORP (mV)	Turbidity (NTU)
SECOND WATER-BEARING ZONE (continued)									
BC-17									
May-11	15.18	7.07	8.11	24.09	2.15	0.36	6.65	-80	0.2
August-11	15.18	7.35	7.83	26.93	1.98	0.26	6.81	-55	0.5
November-11	15.18	9.09	6.09	24.14	1.93	2.31	6.90	166	0.0
February-12	15.18	6.98	8.20	20.14	1.73	3.32	6.60	272	3.9
May-12	15.18	5.90	9.28	24.07	2.25	0.22	6.73	-24	2.2
August-12	15.18	5.88	9.30	26.17	2.32	0.16	6.84	-149	1.7
December-12	15.18	5.58	9.60	21.90	2.12	4.17	6.98	520	0
February-13	15.18	4.12	11.06	19.39	2.15	0.89	6.79	532	3.4
BC-19									
May-11	13.85	6.63	7.22	23.02	2.86	0.22	6.85	121	0.0
August-11	13.85	7.49	6.36	24.97	2.65	0.20	6.90	-79	2.2
November-11	13.85	8.40	5.45	23.22	2.62	0.34	6.90	188	0.0
February-12	13.85	6.65	7.20	19.53	2.43	4.19	7.01	287	0.0
May-12	13.85	5.85	8.00	22.54	2.76	0.25	6.88	105	2.5
August-12	13.85	6.25	7.60	22.66	3.92	1.08	5.96	85	0.0
December-12	13.85	6.22	7.63	20.98	2.75	3.57	7.05	376	1
February-13	13.85	4.44	9.41	19.09	2.60	2.81	6.98	130	3.3
BC-21R									
May-11	15.28	7.99	7.29	22.81	1.310	0.61	6.69	523	0.0
August-11	15.28	9.00	6.28	25.35	1.194	2.84	6.90	266	0.0
November-11	15.28	9.98	5.30	23.46	1.267	5.44	7.05	453	0.0
February-12	15.28	7.75	7.53	18.95	1.159	5.53	7.01	542	0.0
May-12	15.28	7.20	8.08	22.27	1.312	1.99	6.70	506	6.1
August-12	15.28	7.64	7.64	23.68	1.377	0.37	6.47	393	0.2
December-12	15.28	7.73	7.55	20.11	1.277	1.45	6.87	250	9
February-13	15.28	4.60	10.68	17.94	1.273	1.99	6.97	560	0.0
BC-25									
May-11	15.73	8.94	6.79	21.12	0.787	0.22	6.90	109	0.0
August-11	15.73	9.87	5.86	21.70	0.713	0.21	6.97	-80	0.0
November-11	15.73	10.71	5.02	21.21	0.701	0.20	6.94	136	0.0
February-12	15.73	8.82	6.91	19.60	0.650	2.61	7.33	117	0.0
May-12	15.73	8.15	7.58	20.30	0.735	0.21	6.88	188	1.5
August-12	15.73	8.55	7.18	21.50	0.791	0.12	6.24	-94	2.6
December-12	15.73	8.25	7.48	20.17	0.726	4.00	6.72	123	0
February-13	15.73	5.74	9.99	19.66	0.922	0.61	6.85	52	4.1
THIRD WATER-BEARING ZONE									
BA-03A									
May-11	14.76	2.30	12.46	23.88	0.301	0.55	8.17	-219	1.1
August-11	14.76	3.00	11.76	28.81	0.294	3.85	7.90	-131	6.3
November-11	14.76	2.71	12.05	22.32	0.264	0.24	8.38	-217	0.0
February-12	14.76	2.00	12.76	20.98	0.251	3.65	7.34	-85	0.0
May-12	14.76	2.20	12.56	22.60	0.274	0.18	7.97	-202	3.5
August-12	14.76	2.56	12.20	24.23	0.298	0.21	8.11	-269	7.4
December-12	14.76	1.85	12.91	20.95	0.290	2.15	7.07	-154	0
February-13	14.76	1.15	13.61	19.15	0.288	0.51	8.28	-175	2.6
BA-05A									
May-11	14.42	3.62	10.80	24.42	0.257	0.56	7.28	-157	0.0
August-11	14.42	4.60	9.82	29.80	0.240	4.00	7.10	-25	2.9
November-11	14.42	4.23	10.19	23.04	0.231	0.23	7.27	-182	0.0
February-12	14.42	3.75	10.67	21.84	0.128	5.22	7.03	-58	0.0
May-12	14.42	3.60	10.82	22.25	0.242	1.16	7.05	28	0.4
August-12	14.42	4.00	10.42	23.92	0.262	0.50	6.87	-194	1.6
December-12	14.42	3.50	10.92	21.21	0.243	0.50	7.04	-82	0
February-13	14.42	2.82	11.60	19.99	0.255	1.22	7.52	-10	1.6

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Standard Units)	ORP (mV)	Turbidity (NTU)
THIRD WATER-BEARING ZONE (continued)									
BB-01									
May-11	15.75	3.32	12.43	23.24	0.282	0.35	9.77	-209	1.5
August-11	15.75	4.05	11.70	24.04	0.258	0.50	9.89	-183	3.5
November-11	15.75	3.79	11.96	21.85	0.261	0.28	9.88	-135	4.2
February-12	15.75	3.11	12.64	20.14	0.240	0.69	9.79	91	3.0
May-12	15.75	3.13	12.62	23.01	0.270	0.62	9.95	-68	3.3
August-12	15.75	3.65	12.10	24.98	0.293	0.28	9.95	-242	4.7
December-12	15.75	2.90	12.85	21.02	0.272	0.38	9.82	-31	3
February-13	15.75	2.30	13.45	19.30	0.295	0.26	9.82	19	5.7
BA-01A									
May-11	15.03	4.77	10.26	23.74	0.252	0.20	7.26	171	0.0
August-11	15.03	5.49	9.54	24.68	0.228	0.17	7.36	-136	0.0
November-11	15.03	5.58	9.45	23.87	0.227	0.27	7.35	23	0.0
February-12	15.03	5.00	10.03	20.82	0.219	4.61	7.40	302	1.4
May-12	15.03	4.91	10.12	23.56	0.238	0.99	7.28	-71	0.9
August-12	15.03	5.50	9.53	23.35	0.201	0.19	7.23	-72	1.3
December-12	15.03	4.71	10.32	21.00	0.239	0.19	7.40	7	0
February-13	15.03	4.09	10.94	20.26	0.255	1.14	7.49	32	3.2
WATER WELLS									
(b) (6) Well									
May-11	NA	NA	NA	22.22	0.271	2.41	8.30	-249	0.0
August-11	NA	NA	NA	22.75	0.245	1.52	8.36	-149	0.8
November-11	NA	NA	NA	21.92	0.244	3.14	8.26	-195	0.0
February-12	NA	NA	NA	19.10	0.230	3.32	8.20	-155	2.4
May-12	NA	NA	NA	21.23	0.257	5.23	9.08	-176	2.3
August-12	NA	NA	NA	21.69	0.279	2.47	8.11	-163	3.7
December-12	NA	NA	NA	19.08	0.258	2.41	8.46	-186	4
February-13	NA	NA	NA	19.45	0.272	1.90	8.62	-52	8.5
WW-04									
February-11	NA	NA	NA	20.34	0.236	2.34	8.83	-236	4.4
May-11	NA	NA	NA	21.77	0.273	1.50	8.81	-280	0.0
August-11	NA	NA	NA	21.98	0.067	1.61	8.87	-199	0.5
November-11	NA	NA	NA	21.49	0.248	1.55	8.77	-213	2.0
February-12	NA	NA	NA	16.72	0.236	2.35	8.51	-4	3.2
May-12	NA	NA	NA	20.83	0.261	2.33	8.65	-126	0.0
August-12	NA	NA	NA	21.84	0.284	1.75	8.47	-180	7.2
December-12	NA	NA	NA	19.06	0.265	1.71	8.41	-219	5
February-13	NA	NA	NA	19.30	0.293	1.53	9.11	-111	5.1
WW-09									
February-11	NA	NA	NA	19.80	0.234	3.05	7.97	-122	5.5
May-11	NA	NA	NA	24.39	0.262	3.29	8.19	-242	0.0
August-11	NA	NA	NA	21.90	0.187	2.22	8.16	-152	0.0
November-11	NA	NA	NA	20.55	0.242	5.48	8.20	-151	0.0
February-12	NA	NA	NA	15.18	0.231	3.08	7.69	-113	2.9
May-12	NA	NA	NA	21.99	0.254	2.60	7.98	-156	9.2
August-12	NA	NA	NA	24.41	0.275	4.44	7.81	-162	5.0
December-12	NA	NA	NA	14.94	0.260	3.55	7.69	-179	8
February-13	NA	NA	NA	17.95	0.274	7.64	8.32	-31	3.9
North Well									
February-11	NA	NA	NA	21.15	0.240	5.00	8.63	212	3.4
May-11	NA	NA	NA	22.96	0.269	1.08	8.91	-275	0.2
August-11	NA	NA	NA	24.53	0.247	0.98	8.76	-186	3.1
November-11	NA	NA	NA	22.05	0.259	1.23	8.70	-102	0.0
February-12	NA	NA	NA	20.06	0.257	2.65	8.50	163	0.0
May-12	NA	NA	NA	23.15	0.266	2.10	8.70	-253	—
August-12	NA	NA	NA	24.24	0.282	1.16	8.88	-256	1.2
December-12	NA	NA	NA	21.22	0.269	1.64	8.52	377	0
February-13	NA	NA	NA	21.23	0.291	2.18	8.65	97	0.0

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (Standard Units)	ORP (mV)	Turbidity (NTU)
WATER WELLS (continued)									
South Well									
February-11	NA	NA	NA	20.08	0.236	2.47	9.00	-75	1.9
May-11	NA	NA	NA	22.14	0.274	1.07	8.98	-253	0.0
August-11	NA	NA	NA	22.76	0.248	1.62	9.05	-157	1.7
November-11	NA	NA	NA	21.32	0.251	2.10	9.09	-194	0.0
February-12	NA	NA	NA	19.93	0.236	2.55	9.06	-125	0.0
May-12	NA	NA	NA	22.48	0.258	3.41	9.24	-161	0.0
August-12	NA	NA	NA	22.95	0.236	1.66	9.33	-230	2.8
December-12	NA	NA	NA	20.06	0.260	2.13	9.23	-111	0
February-13	NA	NA	NA	18.80	0.302	1.75	8.15	-80	2.6

Notes: 1) Top-of-casing (TOC) elevation - (depth to fluid) = Corrected GROUNDWATER (GW) elevation

2) Additional quarters will be added as sampling events continue

Abbrev.: NA = Not Applicable mg/L = milligrams per Liter NF = Not Found
 NM = Not Measured NS = Not Sampled

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
1	Dissolved Arsenic/7440-38-2	SW8466020A	BA-01	JB29805-20F	2/20/2013	RECAP SS	0.01	0.005	0.0069		No
2	Dissolved Cadmium/7440-43-9	SW8466020A	BA-01	JB29805-20F	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
3	Dissolved Lead/7439-92-1	SW8466020A	BA-01	JB29805-20F	2/20/2013	EPA Site Cleanup	0.015	0.001	0.0011		No
4	Dissolved Manganese/7439-96-5	SW8466020A	BA-01	JB29805-20F	2/20/2013	RECAP SS	0.51	0.05	1.4		Yes
5	Dissolved Nickel/7440-02-0	SW8466020A	BA-01	JB29805-20F	2/20/2013	RECAP SS	0.073	0.01	0.0391		No
6	Dissolved Thallium/7440-28-0	SW8466020A	BA-01	JB29805-20F	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
7	Dissolved Zinc/7440-66-6	SW8466020A	BA-01	JB29805-20F	2/20/2013	RECAP SS	1.1	0.02	0.0525		No
8	Dissolved Arsenic/7440-38-2	SW8466020A	DW-01	JB29805-28F	2/20/2013	RECAP SS	0.01	0.005	0.207		Yes
9	Dissolved Cadmium/7440-43-9	SW8466020A	DW-01	JB29805-28F	2/20/2013	RECAP SS	0.005	0.001	0.0494		Yes
10	Dissolved Lead/7439-92-1	SW8466020A	DW-01	JB29805-28F	2/20/2013	EPA Site Cleanup	0.015	0.001	0.0164		Yes
11	Dissolved Manganese/7439-96-5	SW8466020A	DW-01	JB29805-28F	2/20/2013	RECAP SS	0.51	0.05	15.9		Yes
12	Dissolved Nickel/7440-02-0	SW8466020A	DW-01	JB29805-28F	2/20/2013	RECAP SS	0.073	0.01	0.0642		No
13	Dissolved Thallium/7440-28-0	SW8466020A	DW-01	JB29805-28F	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
14	Dissolved Zinc/7440-66-6	SW8466020A	DW-01	JB29805-28F	2/20/2013	RECAP SS	1.1	0.02	0.388		No
15	Total Arsenic/7440-38-2	SW8466020A	BC-07	JB29805-1	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
16	Total Cadmium/7440-43-9	SW8466020A	BC-07	JB29805-1	2/18/2013	RECAP SS	0.005	0.001	< 0.001		No
17	Total Lead/7439-92-1	SW8466020A	BC-07	JB29805-1	2/18/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
18	Total Manganese/7439-96-5	SW8466020A	BC-07	JB29805-1	2/18/2013	RECAP SS	0.51	0.01	0.0118		No
19	Total Nickel/7440-02-0	SW8466020A	BC-07	JB29805-1	2/18/2013	RECAP SS	0.073	0.01	< 0.01		No
20	Total Thallium/7440-28-0	SW8466020A	BC-07	JB29805-1	2/18/2013	RECAP SS	0.002	0.005	< 0.005		Yes
21	Total Zinc/7440-66-6	SW8466020A	BC-07	JB29805-1	2/18/2013	RECAP SS	1.1	0.02	< 0.02		No
22	Total Arsenic/7440-38-2	SW8466020A	DW-04	JB29805-2	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
23	Total Cadmium/7440-43-9	SW8466020A	DW-04	JB29805-2	2/18/2013	RECAP SS	0.005	0.001	< 0.001		No
24	Total Lead/7439-92-1	SW8466020A	DW-04	JB29805-2	2/18/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
25	Total Manganese/7439-96-5	SW8466020A	DW-04	JB29805-2	2/18/2013	RECAP SS	0.51	0.01	< 0.01		No
26	Total Nickel/7440-02-0	SW8466020A	DW-04	JB29805-2	2/18/2013	RECAP SS	0.073	0.01	< 0.01		No
27	Total Thallium/7440-28-0	SW8466020A	DW-04	JB29805-2	2/18/2013	RECAP SS	0.002	0.001	< 0.001		No
28	Total Zinc/7440-66-6	SW8466020A	DW-04	JB29805-2	2/18/2013	RECAP SS	1.1	0.02	< 0.02		No
29	Total Arsenic/7440-38-2	SW8466020A	BC-19	JB29805-3	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
30	Total Cadmium/7440-43-9	SW8466020A	BC-19	JB29805-3	2/18/2013	RECAP SS	0.005	0.001	< 0.001		No
31	Total Lead/7439-92-1	SW8466020A	BC-19	JB29805-3	2/18/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
32	Total Manganese/7439-96-5	SW8466020A	BC-19	JB29805-3	2/18/2013	RECAP SS	0.51	0.01	< 0.01		No
33	Total Nickel/7440-02-0	SW8466020A	BC-19	JB29805-3	2/18/2013	RECAP SS	0.073	0.01	< 0.01		No
34	Total Thallium/7440-28-0	SW8466020A	BC-19	JB29805-3	2/18/2013	RECAP SS	0.002	0.001	< 0.001		No
35	Total Zinc/7440-66-6	SW8466020A	BC-19	JB29805-3	2/18/2013	RECAP SS	1.1	0.02	< 0.02		No
36	Total Arsenic/7440-38-2	SW8466020A	BC-25	JB29805-4	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
37	Total Cadmium/7440-43-9	SW8466020A	BC-25	JB29805-4	2/18/2013	RECAP SS	0.005	0.001	< 0.001		No
38	Total Lead/7439-92-1	SW8466020A	BC-25	JB29805-4	2/18/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
39	Total Manganese/7439-96-5	SW8466020A	BC-25	JB29805-4	2/18/2013	RECAP SS	0.51	0.01	0.217		No
40	Total Nickel/7440-02-0	SW8466020A	BC-25	JB29805-4	2/18/2013	RECAP SS	0.073	0.01	< 0.01		No
41	Total Thallium/7440-28-0	SW8466020A	BC-25	JB29805-4	2/18/2013	RECAP SS	0.002	0.001	< 0.001		No
42	Total Zinc/7440-66-6	SW8466020A	BC-25	JB29805-4	2/18/2013	RECAP SS	1.1	0.02	< 0.02		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
43	Total Arsenic/7440-38-2	SW8466020A	MW-3	JB29805-5	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
44	Total Cadmium/7440-43-9	SW8466020A	MW-3	JB29805-5	2/18/2013	RECAP SS	0.005	0.001	< 0.001		No
45	Total Lead/7439-92-1	SW8466020A	MW-3	JB29805-5	2/18/2013	EPA Site Cleanup	0.015	0.001	0.0011		No
46	Total Manganese/7439-96-5	SW8466020A	MW-3	JB29805-5	2/18/2013	RECAP SS	0.51	0.01	0.419		No
47	Total Nickel/7440-02-0	SW8466020A	MW-3	JB29805-5	2/18/2013	RECAP SS	0.073	0.01	< 0.01		No
48	Total Thallium/7440-28-0	SW8466020A	MW-3	JB29805-5	2/18/2013	RECAP SS	0.002	0.001	< 0.001		No
49	Total Zinc/7440-66-6	SW8466020A	MW-3	JB29805-5	2/18/2013	RECAP SS	1.1	0.02	< 0.02		No
50	Total Arsenic/7440-38-2	SW8466020A	MW-6	JB29805-6	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
51	Total Cadmium/7440-43-9	SW8466020A	MW-6	JB29805-6	2/18/2013	RECAP SS	0.005	0.001	0.0307		Yes
52	Total Lead/7439-92-1	SW8466020A	MW-6	JB29805-6	2/18/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
53	Total Manganese/7439-96-5	SW8466020A	MW-6	JB29805-6	2/18/2013	RECAP SS	0.51	0.05	2.46		Yes
54	Total Nickel/7440-02-0	SW8466020A	MW-6	JB29805-6	2/18/2013	RECAP SS	0.073	0.01	0.0227		No
55	Total Thallium/7440-28-0	SW8466020A	MW-6	JB29805-6	2/18/2013	RECAP SS	0.002	0.001	< 0.001		No
56	Total Zinc/7440-66-6	SW8466020A	MW-6	JB29805-6	2/18/2013	RECAP SS	1.1	0.02	0.0777		No
57	Total Arsenic/7440-38-2	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	RECAP SS	0.01	0.005	< 0.005		No
58	Total Cadmium/7440-43-9	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	RECAP SS	0.005	0.005	< 0.005		No
59	Total Lead/7439-92-1	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
60	Total Manganese/7439-96-5	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	RECAP SS	0.51	0.01	< 0.01		No
61	Total Nickel/7440-02-0	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	RECAP SS	0.073	0.01	< 0.01		No
62	Total Thallium/7440-28-0	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	RECAP SS	0.002	0.001	< 0.001		No
63	Total Zinc/7440-66-6	SW8466020A	SOUTH WELL	JB29805-7	2/18/2013	RECAP SS	1.1	0.02	< 0.02		No
64	Total Arsenic/7440-38-2	SW8466020A	BB-01	JB29805-8	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
65	Total Cadmium/7440-43-9	SW8466020A	BB-01	JB29805-8	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
66	Total Lead/7439-92-1	SW8466020A	BB-01	JB29805-8	2/19/2013	EPA Site Cleanup	0.015	0.001	0.0053		No
67	Total Manganese/7439-96-5	SW8466020A	BB-01	JB29805-8	2/19/2013	RECAP SS	0.51	0.01	< 0.01		No
68	Total Nickel/7440-02-0	SW8466020A	BB-01	JB29805-8	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
69	Total Thallium/7440-28-0	SW8466020A	BB-01	JB29805-8	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
70	Total Zinc/7440-66-6	SW8466020A	BB-01	JB29805-8	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
71	Total Arsenic/7440-38-2	SW8466020A	BC-17	JB29805-9	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
72	Total Cadmium/7440-43-9	SW8466020A	BC-17	JB29805-9	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
73	Total Lead/7439-92-1	SW8466020A	BC-17	JB29805-9	2/19/2013	EPA Site Cleanup	0.015	0.001	0.0155		Yes
74	Total Manganese/7439-96-5	SW8466020A	BC-17	JB29805-9	2/19/2013	RECAP SS	0.51	0.01	0.0605		No
75	Total Nickel/7440-02-0	SW8466020A	BC-17	JB29805-9	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
76	Total Thallium/7440-28-0	SW8466020A	BC-17	JB29805-9	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
77	Total Zinc/7440-66-6	SW8466020A	BC-17	JB29805-9	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
78	Total Arsenic/7440-38-2	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
79	Total Cadmium/7440-43-9	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
80	Total Lead/7439-92-1	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	EPA Site Cleanup	0.015	0.001	0.001		No
81	Total Manganese/7439-96-5	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	RECAP SS	0.51	0.01	< 0.01		No
82	Total Nickel/7440-02-0	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
83	Total Thallium/7440-28-0	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
84	Total Zinc/7440-66-6	SW8466020A	NORTH WELL	JB29805-10	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
85	Total Arsenic/7440-38-2	SW8466020A	BC-21R	JB29805-11	2/19/2013	RECAP SS	0.01	0.001	< 0.001		No
86	Total Cadmium/7440-43-9	SW8466020A	BC-21R	JB29805-11	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
87	Total Lead/7439-92-1	SW8466020A	BC-21R	JB29805-11	2/19/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
88	Total Manganese/7439-96-5	SW8466020A	BC-21R	JB29805-11	2/19/2013	RECAP SS	0.51	0.002	0.0575		No
89	Total Nickel/7440-02-0	SW8466020A	BC-21R	JB29805-11	2/19/2013	RECAP SS	0.073	0.002	< 0.002		No
90	Total Thallium/7440-28-0	SW8466020A	BC-21R	JB29805-11	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
91	Total Zinc/7440-66-6	SW8466020A	BC-21R	JB29805-11	2/19/2013	RECAP SS	1.1	0.004	0.004		No
92	Total Arsenic/7440-38-2	SW8466020A	BA-09	JB29805-12	2/19/2013	RECAP SS	0.01	0.005	0.0342		Yes
93	Total Cadmium/7440-43-9	SW8466020A	BA-09	JB29805-12	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
94	Total Lead/7439-92-1	SW8466020A	BA-09	JB29805-12	2/19/2013	EPA Site Cleanup	0.015	0.001	0.0013		No
95	Total Manganese/7439-96-5	SW8466020A	BA-09	JB29805-12	2/19/2013	RECAP SS	0.51	0.05	3.58		Yes
96	Total Nickel/7440-02-0	SW8466020A	BA-09	JB29805-12	2/19/2013	RECAP SS	0.073	0.01	0.157		Yes
97	Total Thallium/7440-28-0	SW8466020A	BA-09	JB29805-12	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
98	Total Zinc/7440-66-6	SW8466020A	BA-09	JB29805-12	2/19/2013	RECAP SS	1.1	0.02	0.231		No
99	Total Arsenic/7440-38-2	SW8466020A	BA-09A	JB29805-13	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
100	Total Cadmium/7440-43-9	SW8466020A	BA-09A	JB29805-13	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
101	Total Lead/7439-92-1	SW8466020A	BA-09A	JB29805-13	2/19/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
102	Total Manganese/7439-96-5	SW8466020A	BA-09A	JB29805-13	2/19/2013	RECAP SS	0.51	0.01	0.0309		No
103	Total Nickel/7440-02-0	SW8466020A	BA-09A	JB29805-13	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
104	Total Thallium/7440-28-0	SW8466020A	BA-09A	JB29805-13	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
105	Total Zinc/7440-66-6	SW8466020A	BA-09A	JB29805-13	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
106	Total Arsenic/7440-38-2	SW8466020A	WW-09	JB29805-14	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
107	Total Cadmium/7440-43-9	SW8466020A	WW-09	JB29805-14	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
108	Total Lead/7439-92-1	SW8466020A	WW-09	JB29805-14	2/19/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
109	Total Manganese/7439-96-5	SW8466020A	WW-09	JB29805-14	2/19/2013	RECAP SS	0.51	0.01	0.0179		No
110	Total Nickel/7440-02-0	SW8466020A	WW-09	JB29805-14	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
111	Total Thallium/7440-28-0	SW8466020A	WW-09	JB29805-14	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
112	Total Zinc/7440-66-6	SW8466020A	WW-09	JB29805-14	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
113	Total Arsenic/7440-38-2	SW8466020A	MW-04	JB29805-15	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
114	Total Cadmium/7440-43-9	SW8466020A	MW-04	JB29805-15	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
115	Total Lead/7439-92-1	SW8466020A	MW-04	JB29805-15	2/19/2013	EPA Site Cleanup	0.015	0.001	0.0036		No
116	Total Manganese/7439-96-5	SW8466020A	MW-04	JB29805-15	2/19/2013	RECAP SS	0.51	0.01	0.0628		No
117	Total Nickel/7440-02-0	SW8466020A	MW-04	JB29805-15	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
118	Total Thallium/7440-28-0	SW8466020A	MW-04	JB29805-15	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
119	Total Zinc/7440-66-6	SW8466020A	MW-04	JB29805-15	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
120	Total Arsenic/7440-38-2	SW8466020A	BC-03	JB29805-16	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No
121	Total Cadmium/7440-43-9	SW8466020A	BC-03	JB29805-16	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
122	Total Lead/7439-92-1	SW8466020A	BC-03	JB29805-16	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
123	Total Manganese/7439-96-5	SW8466020A	BC-03	JB29805-16	2/20/2013	RECAP SS	0.51	0.01	< 0.01		No
124	Total Nickel/7440-02-0	SW8466020A	BC-03	JB29805-16	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No
125	Total Thallium/7440-28-0	SW8466020A	BC-03	JB29805-16	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
126	Total Zinc/7440-66-6	SW8466020A	BC-03	JB29805-16	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard	
127	Total Arsenic/7440-38-2	SW8466020A	WW-04	JB29805-17	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No	
128	Total Cadmium/7440-43-9	SW8466020A	WW-04	JB29805-17	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No	
129	Total Lead/7439-92-1	SW8466020A	WW-04	JB29805-17	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No	
130	Total Manganese/7439-96-5	SW8466020A	WW-04	JB29805-17	2/20/2013	RECAP SS	0.51	0.01	< 0.01		No	
131	Total Nickel/7440-02-0	SW8466020A	WW-04	JB29805-17	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No	
132	Total Thallium/7440-28-0	SW8466020A	WW-04	JB29805-17	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No	
133	Total Zinc/7440-66-6	SW8466020A	WW-04	JB29805-17	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No	
134	Total Arsenic/7440-38-2	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No
135	Total Cadmium/7440-43-9	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
136	Total Lead/7439-92-1	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	EPA Site Cleanup	0.015	0.001	0.0012		No
137	Total Manganese/7439-96-5	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	RECAP SS	0.51	0.01	0.0243		No
138	Total Nickel/7440-02-0	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No
139	Total Thallium/7440-28-0	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
140	Total Zinc/7440-66-6	SW8466020A	(b) (6)	WELL	JB29805-18	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No
141	Total Arsenic/7440-38-2	SW8466020A	BA-01A	JB29805-19	2/20/2013	RECAP SS	0.01	0.005	0.0085		No	
142	Total Cadmium/7440-43-9	SW8466020A	BA-01A	JB29805-19	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No	
143	Total Lead/7439-92-1	SW8466020A	BA-01A	JB29805-19	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No	
144	Total Manganese/7439-96-5	SW8466020A	BA-01A	JB29805-19	2/20/2013	RECAP SS	0.51	0.01	0.0123		No	
145	Total Nickel/7440-02-0	SW8466020A	BA-01A	JB29805-19	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No	
146	Total Thallium/7440-28-0	SW8466020A	BA-01A	JB29805-19	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No	
147	Total Zinc/7440-66-6	SW8466020A	BA-01A	JB29805-19	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No	
148	Total Arsenic/7440-38-2	SW8466020A	BA-01	JB29805-20	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No	
149	Total Cadmium/7440-43-9	SW8466020A	BA-01	JB29805-20	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No	
150	Total Lead/7439-92-1	SW8466020A	BA-01	JB29805-20	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No	
151	Total Manganese/7439-96-5	SW8466020A	BA-01	JB29805-20	2/20/2013	RECAP SS	0.51	0.05	1.32		Yes	
152	Total Nickel/7440-02-0	SW8466020A	BA-01	JB29805-20	2/20/2013	RECAP SS	0.073	0.01	0.0397		No	
153	Total Thallium/7440-28-0	SW8466020A	BA-01	JB29805-20	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No	
154	Total Zinc/7440-66-6	SW8466020A	BA-01	JB29805-20	2/20/2013	RECAP SS	1.1	0.02	0.0923		No	
155	Total Arsenic/7440-38-2	SW8466020A	DW-03	JB29805-22	2/20/2013	RECAP SS	0.01	0.005	0.0356		Yes	
156	Total Cadmium/7440-43-9	SW8466020A	DW-03	JB29805-22	2/20/2013	RECAP SS	0.005	0.001	0.0029		No	
157	Total Lead/7439-92-1	SW8466020A	DW-03	JB29805-22	2/20/2013	EPA Site Cleanup	0.015	0.001	0.0321		Yes	
158	Total Manganese/7439-96-5	SW8466020A	DW-03	JB29805-22	2/20/2013	RECAP SS	0.51	0.05	4.66		Yes	
159	Total Nickel/7440-02-0	SW8466020A	DW-03	JB29805-22	2/20/2013	RECAP SS	0.073	0.01	0.171		Yes	
160	Total Thallium/7440-28-0	SW8466020A	DW-03	JB29805-22	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No	
161	Total Zinc/7440-66-6	SW8466020A	DW-03	JB29805-22	2/20/2013	RECAP SS	1.1	0.02	0.257		No	
162	Total Arsenic/7440-38-2	SW8466020A	PW-04	JB29805-23	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No	
163	Total Cadmium/7440-43-9	SW8466020A	PW-04	JB29805-23	2/20/2013	RECAP SS	0.005	0.001	0.0021		No	
164	Total Lead/7439-92-1	SW8466020A	PW-04	JB29805-23	2/20/2013	EPA Site Cleanup	0.015	0.001	0.0013		No	
165	Total Manganese/7439-96-5	SW8466020A	PW-04	JB29805-23	2/20/2013	RECAP SS	0.51	0.05	1.64		Yes	
166	Total Nickel/7440-02-0	SW8466020A	PW-04	JB29805-23	2/20/2013	RECAP SS	0.073	0.01	0.0321		No	
167	Total Thallium/7440-28-0	SW8466020A	PW-04	JB29805-23	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No	
168	Total Zinc/7440-66-6	SW8466020A	PW-04	JB29805-23	2/20/2013	RECAP SS	1.1	0.02	0.0825		No	

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TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
 Ponchatoula, Louisiana
 Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
169	Total Arsenic/7440-38-2	SW8466020A	DW-02	JB29805-24	2/20/2013	RECAP SS	0.01	0.005	0.0758		Yes
170	Total Cadmium/7440-43-9	SW8466020A	DW-02	JB29805-24	2/20/2013	RECAP SS	0.005	0.001	0.0433		Yes
171	Total Lead/7439-92-1	SW8466020A	DW-02	JB29805-24	2/20/2013	EPA Site Cleanup	0.015	0.001	0.053		Yes
172	Total Manganese/7439-96-5	SW8466020A	DW-02	JB29805-24	2/20/2013	RECAP SS	0.51	0.05	16.2		Yes
173	Total Nickel/7440-02-0	SW8466020A	DW-02	JB29805-24	2/20/2013	RECAP SS	0.073	0.01	0.668		Yes
174	Total Thallium/7440-28-0	SW8466020A	DW-02	JB29805-24	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
175	Total Zinc/7440-66-6	SW8466020A	DW-02	JB29805-24	2/20/2013	RECAP SS	1.1	0.1	2.13		Yes
176	Total Arsenic/7440-38-2	SW8466020A	BA-05	JB29805-25	2/20/2013	RECAP SS	0.01	0.001	0.0025		No
177	Total Cadmium/7440-43-9	SW8466020A	BA-05	JB29805-25	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
178	Total Lead/7439-92-1	SW8466020A	BA-05	JB29805-25	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
179	Total Manganese/7439-96-5	SW8466020A	BA-05	JB29805-25	2/20/2013	RECAP SS	0.51	0.05	17.7		Yes
180	Total Nickel/7440-02-0	SW8466020A	BA-05	JB29805-25	2/20/2013	RECAP SS	0.073	0.01	0.0785		Yes
181	Total Thallium/7440-28-0	SW8466020A	BA-05	JB29805-25	2/20/2013	RECAP SS	0.002	0.001	0.0013		No
182	Total Zinc/7440-66-6	SW8466020A	BA-05	JB29805-25	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No
183	Total Arsenic/7440-38-2	SW8466020A	BA-05A	JB29805-26	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No
184	Total Cadmium/7440-43-9	SW8466020A	BA-05A	JB29805-26	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
185	Total Lead/7439-92-1	SW8466020A	BA-05A	JB29805-26	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
186	Total Manganese/7439-96-5	SW8466020A	BA-05A	JB29805-26	2/20/2013	RECAP SS	0.51	0.01	0.0144		No
187	Total Nickel/7440-02-0	SW8466020A	BA-05A	JB29805-26	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No
188	Total Thallium/7440-28-0	SW8466020A	BA-05A	JB29805-26	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
189	Total Zinc/7440-66-6	SW8466020A	BA-05A	JB29805-26	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No
190	Total Arsenic/7440-38-2	SW8466020A	MW-A	JB29805-27	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No
191	Total Cadmium/7440-43-9	SW8466020A	MW-A	JB29805-27	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
192	Total Lead/7439-92-1	SW8466020A	MW-A	JB29805-27	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
193	Total Manganese/7439-96-5	SW8466020A	MW-A	JB29805-27	2/20/2013	RECAP SS	0.51	0.01	< 0.01		No
194	Total Nickel/7440-02-0	SW8466020A	MW-A	JB29805-27	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No
195	Total Thallium/7440-28-0	SW8466020A	MW-A	JB29805-27	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
196	Total Zinc/7440-66-6	SW8466020A	MW-A	JB29805-27	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No
197	Total Arsenic/7440-38-2	SW8466020A	DW-01	JB29805-28	2/20/2013	RECAP SS	0.01	0.005	0.236		Yes
198	Total Cadmium/7440-43-9	SW8466020A	DW-01	JB29805-28	2/20/2013	RECAP SS	0.005	0.001	0.0458		Yes
199	Total Lead/7439-92-1	SW8466020A	DW-01	JB29805-28	2/20/2013	EPA Site Cleanup	0.015	0.001	0.015		No
200	Total Manganese/7439-96-5	SW8466020A	DW-01	JB29805-28	2/20/2013	RECAP SS	0.51	0.05	13.8		Yes
201	Total Nickel/7440-02-0	SW8466020A	DW-01	JB29805-28	2/20/2013	RECAP SS	0.073	0.01	0.0597		No
202	Total Thallium/7440-28-0	SW8466020A	DW-01	JB29805-28	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
203	Total Zinc/7440-66-6	SW8466020A	DW-01	JB29805-28	2/20/2013	RECAP SS	1.1	0.02	0.356		No
204	Total Arsenic/7440-38-2	SW8466020A	MW-01	JB29805-30	2/21/2013	RECAP SS	0.01	0.005	0.0708		Yes
205	Total Cadmium/7440-43-9	SW8466020A	MW-01	JB29805-30	2/21/2013	RECAP SS	0.005	0.001	0.0069		Yes
206	Total Lead/7439-92-1	SW8466020A	MW-01	JB29805-30	2/21/2013	EPA Site Cleanup	0.015	0.001	0.0095		No
207	Total Manganese/7439-96-5	SW8466020A	MW-01	JB29805-30	2/21/2013	RECAP SS	0.51	0.05	7.27		Yes
208	Total Nickel/7440-02-0	SW8466020A	MW-01	JB29805-30	2/21/2013	RECAP SS	0.073	0.01	0.263		Yes
209	Total Thallium/7440-28-0	SW8466020A	MW-01	JB29805-30	2/21/2013	RECAP SS	0.002	0.001	< 0.001		No
210	Total Zinc/7440-66-6	SW8466020A	MW-01	JB29805-30	2/21/2013	RECAP SS	1.1	0.02	0.309		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
211	Total Arsenic/7440-38-2	SW8466020A	BA-03A	JB29805-31	2/21/2013	RECAP SS	0.01	0.005	< 0.005		No
212	Total Cadmium/7440-43-9	SW8466020A	BA-03A	JB29805-31	2/21/2013	RECAP SS	0.005	0.001	< 0.001		No
213	Total Lead/7439-92-1	SW8466020A	BA-03A	JB29805-31	2/21/2013	EPA Site Cleanup	0.015	0.001	0.002		No
214	Total Manganese/7439-96-5	SW8466020A	BA-03A	JB29805-31	2/21/2013	RECAP SS	0.51	0.01	0.0394		No
215	Total Nickel/7440-02-0	SW8466020A	BA-03A	JB29805-31	2/21/2013	RECAP SS	0.073	0.01	< 0.01		No
216	Total Thallium/7440-28-0	SW8466020A	BA-03A	JB29805-31	2/21/2013	RECAP SS	0.002	0.001	< 0.001		No
217	Total Zinc/7440-66-6	SW8466020A	BA-03A	JB29805-31	2/21/2013	RECAP SS	1.1	0.02	< 0.02		No
218	Total Arsenic/7440-38-2	SW8466020A	BA-03	JB29805-32	2/21/2013	RECAP SS	0.01	0.005	< 0.005		No
219	Total Cadmium/7440-43-9	SW8466020A	BA-03	JB29805-32	2/21/2013	RECAP SS	0.005	0.001	0.0699		Yes
220	Total Lead/7439-92-1	SW8466020A	BA-03	JB29805-32	2/21/2013	EPA Site Cleanup	0.015	0.001	0.076		Yes
221	Total Manganese/7439-96-5	SW8466020A	BA-03	JB29805-32	2/21/2013	RECAP SS	0.51	0.05	1.8		Yes
222	Total Nickel/7440-02-0	SW8466020A	BA-03	JB29805-32	2/21/2013	RECAP SS	0.073	0.01	0.0535		No
223	Total Thallium/7440-28-0	SW8466020A	BA-03	JB29805-32	2/21/2013	RECAP SS	0.002	0.001	< 0.001		No
224	Total Zinc/7440-66-6	SW8466020A	BA-03	JB29805-32	2/21/2013	RECAP SS	1.1	0.02	0.242		No
225	Total Arsenic/7440-38-2	SW8466020A	MW-02	JB29805-33	2/21/2013	RECAP SS	0.01	0.005	< 0.005		No
226	Total Cadmium/7440-43-9	SW8466020A	MW-02	JB29805-33	2/21/2013	RECAP SS	0.005	0.001	0.0457		Yes
227	Total Lead/7439-92-1	SW8466020A	MW-02	JB29805-33	2/21/2013	EPA Site Cleanup	0.015	0.001	0.0025		No
228	Total Manganese/7439-96-5	SW8466020A	MW-02	JB29805-33	2/21/2013	RECAP SS	0.51	0.01	0.621		Yes
229	Total Nickel/7440-02-0	SW8466020A	MW-02	JB29805-33	2/21/2013	RECAP SS	0.073	0.01	0.0525		No
230	Total Thallium/7440-28-0	SW8466020A	MW-02	JB29805-33	2/21/2013	RECAP SS	0.002	0.001	< 0.001		No
231	Total Zinc/7440-66-6	SW8466020A	MW-02	JB29805-33	2/21/2013	RECAP SS	1.1	0.02	0.197		No
232	Total Arsenic/7440-38-2	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
233	Total Cadmium/7440-43-9	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
234	Total Lead/7439-92-1	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	EPA Site Cleanup	0.015	0.001	0.0066		No
235	Total Manganese/7439-96-5	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	RECAP SS	0.51	0.01	< 0.01		No
236	Total Nickel/7440-02-0	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
237	Total Thallium/7440-28-0	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	RECAP SS	0.002	0.001	< 0.001		No
238	Total Zinc/7440-66-6	SW8466020A	DUPLICATE #1	JB29805-34	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
239	Total Arsenic/7440-38-2	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	RECAP SS	0.01	0.005	< 0.005		No
240	Total Cadmium/7440-43-9	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	RECAP SS	0.005	0.001	< 0.001		No
241	Total Lead/7439-92-1	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
242	Total Manganese/7439-96-5	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	RECAP SS	0.51	0.01	0.0242		No
243	Total Nickel/7440-02-0	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	RECAP SS	0.073	0.01	< 0.01		No
244	Total Thallium/7440-28-0	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	RECAP SS	0.002	0.005	< 0.005		Yes
245	Total Zinc/7440-66-6	SW8466020A	DUPLICATE #2	JB29805-35	2/19/2013	RECAP SS	1.1	0.02	< 0.02		No
246	Total Arsenic/7440-38-2	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No
247	Total Cadmium/7440-43-9	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
248	Total Lead/7439-92-1	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
249	Total Manganese/7439-96-5	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	RECAP SS	0.51	0.01	< 0.01		No
250	Total Nickel/7440-02-0	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No
251	Total Thallium/7440-28-0	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
252	Total Zinc/7440-66-6	SW8466020A	DUPLICATE #3	JB29805-36	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
253	Total Arsenic/7440-38-2	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	RECAP SS	0.01	0.005	< 0.005		No
254	Total Cadmium/7440-43-9	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	RECAP SS	0.005	0.001	< 0.001		No
255	Total Lead/7439-92-1	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	EPA Site Cleanup	0.015	0.001	< 0.001		No
256	Total Manganese/7439-96-5	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	RECAP SS	0.51	0.01	0.0109		No
257	Total Nickel/7440-02-0	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	RECAP SS	0.073	0.01	< 0.01		No
258	Total Thallium/7440-28-0	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	RECAP SS	0.002	0.001	< 0.001		No
259	Total Zinc/7440-66-6	SW8466020A	DUPLICATE #4	JB29805-37	2/20/2013	RECAP SS	1.1	0.02	< 0.02		No

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data												
Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals					
			Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	
FIRST WATER-BEARING ZONE															
11.28	2.08	5.83	0.131	0.000702 J	0.000388 J	0.257	0.00253	<0.002	0.0114	NA	NA	NA	NA	NA	
12.20	1.16	5.90	1.22	0.00204	0.0257	0.107	<0.002	<0.002	0.00598 J	NA	NA	NA	NA	NA	
11.70	1.66	5.48	0.144	0.00150 J	0.00168	1.09	0.0147	0.000275 J	0.0395	NA	NA	NA	NA	NA	
10.44	2.92	5.59	0.203	0.00154 J	0.00178	0.776	0.0128	<0.002	0.0333	NA	NA	NA	NA	NA	
10.90	2.46	5.73	0.229 J	<0.01	<0.005	0.453	<0.01	<0.01	<0.05 J	NA	NA	NA	NA	NA	
11.12	2.24	5.10	0.239	0.000718 J	0.00191	0.458	0.00675	0.000444 J	0.0177	0.155	0.000365 J	<0.001	0.554	0.007	
11.09	2.27	5.77	0.121	0.000922 J	0.000859 J	0.444	0.00412	<0.002	0.0106	NA	NA	NA	NA	NA	
9.48	3.88	4.44	0.236	0.0458*	0.015	13.8*	0.0597	<0.001	0.356*	0.207	0.0494*	0.0164	15.9*	0.064	
6.30	7.82	2.80	0.0644 J	0.0277	0.0244	11.4	0.484	<0.002	1.14	NA	NA	NA	NA	NA	
6.22	7.90	2.98	0.0738	0.0245	0.0132	13.5	0.653	<0.01	1.76	NA	NA	NA	NA	NA	
6.60	7.52	2.94	0.0564 J	0.0520	0.0899	11.6	0.482	<0.002	1.03	NA	NA	NA	NA	NA	
4.55	9.57	3.05	0.0548 J	0.0173	0.0299	11.4	0.508	<0.01	1.23	NA	NA	NA	NA	NA	
4.65	9.47	2.92	0.0448 J	0.0269	0.0192	14.5	0.682	0.00188 J	1.79	NA	NA	NA	NA	NA	
4.40	9.72	2.73	0.0589 J	0.0272	0.0309	11.8	0.594	0.00216 J	1.49	NA	NA	NA	NA	NA	
4.65	9.47	2.83	0.0603	0.0337	0.0455	16.9	0.641	<0.0010	2.11	NA	NA	NA	NA	NA	
3.45	10.67	3.11	0.0758	0.0433	0.053	16.2	0.668	<0.001	2.13	NA	NA	NA	NA	NA	
6.85	4.74	3.47	0.0475 J	0.00259	0.0356	3.83	0.132	<0.002	0.153	NA	NA	NA	NA	NA	
7.60	3.99	3.73	0.0461 J	0.00217	0.00899	2.4	0.125	<0.002	0.149	NA	NA	NA	NA	NA	
7.14	4.45	3.79	0.0260 J	0.00118 J	0.00976	2.75	0.103	0.000336 J	0.132	NA	NA	NA	NA	NA	
4.74	6.85	3.95	0.0105	0.00583	0.0689	0.243	0.0122	<0.002	0.0265	NA	NA	NA	NA	NA	
5.66	5.93	4.42	0.016	0.00189 J	0.015	0.835	0.023	0.000415 J	0.0425	NA	NA	NA	NA	NA	
5.77	5.82	4.38	0.0028 J	0.000198 J	0.00417	0.203	0.00942	0.000431 J	0.02	NA	NA	NA	NA	NA	
6.00	5.59	4.62	0.00828	0.000434 J	0.00426	0.145	0.00787	<0.002	0.0179	NA	NA	NA	NA	NA	
5.35	6.24	3.61	0.0356	0.0029	0.0321	4.66	0.171	<0.001	0.257	NA	NA	NA	NA	NA	
13.36	1.72	3.49	0.026 J	0.00577	0.00384	5.98	0.225	<0.002	0.243	NA	NA	NA	NA	NA	
13.35	1.73	3.69	0.131	0.00627	0.0185	2.62	0.0855	<0.002	0.121	NA	NA	NA	NA	NA	
13.72	1.36	3.43	0.0245 J	0.00733	0.00616	6.13	0.227	0.000345 J	0.270	NA	NA	NA	NA	NA	
13.03	2.05	3.44	0.0761 J	0.0247	0.0248	5.84	0.237	<0.01	0.283	NA	NA	NA	NA	NA	
13.34	1.74	3.35	0.0253 J	0.00878 J	0.00748	7.31	0.305	0.00197 J	0.417	NA	NA	NA	NA	NA	
13.52	1.56	3.01	0.048 J	0.00405 J	0.00559	5.3	0.232	0.00221 J	0.3	NA	NA	NA	NA	NA	
11.75	3.33	3.35	0.0623	0.0117	0.0128	7.32	0.241	<0.0010	0.303	NA	NA	NA	NA	NA	
12.73	2.35	3.44	0.0708	0.0069	0.0095	7.27	0.263	<0.001	0.309	NA	NA	NA	NA	NA	
EQ RECAP SS			6.0-9.0	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51	0.07

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOUA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data												
Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals					
			Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	
FIRST WATER-BEARING ZONE															
8.19	6.04	3.41	<0.004	0.111	0.00196 J	1.37	0.0544	<0.002	0.279	NA	NA	NA	NA	NA	
9.00	5.23	3.20	0.00101 J	0.46	0.0124	1.01	0.0705	0.000377 J	0.395	NA	NA	NA	NA	NA	
8.50	5.73	3.25	0.000802 J	0.185	0.00601	1.81	0.0679	0.000935 J	0.333	NA	NA	NA	NA	NA	
7.15	7.08	3.23	< 0.02	0.0854	0.00503	0.816	0.0646	0.000276 J	0.23	NA	NA	NA	NA	NA	
8.25	5.98	3.31	< 0.02	0.0925	0.00629	1.12	0.0698	0.0023 J	0.303	NA	NA	NA	NA	NA	
7.42	6.81	3.01	0.00153 J	0.0532	0.00204	0.761	0.0516	0.000741 J	0.16	NA	NA	NA	NA	NA	
7.30	6.93	3.29	0.0012	0.0376	0.0027	0.575	0.049	<0.0010	0.156	NA	NA	NA	NA	NA	
6.68	7.55	3.37	< 0.005	0.0457	0.0025	0.621	0.0525	< 0.001	0.197	NA	NA	NA	NA	NA	
9.86	6.91	3.82	<0.01	0.0373	<0.002	2.31	0.0229	<0.002	0.0818	NA	NA	NA	NA	NA	
10.40	6.37	3.73	0.00587 J	0.0742	0.00215	3.78	0.0418	<0.002	0.145	NA	NA	NA	NA	NA	
10.14	6.63	3.67	< 0.02	0.0778	0.00155	4.11	0.0403	0.000423 J	0.138	NA	NA	NA	NA	NA	
7.71	9.06	3.65	< 0.02	0.0561	0.000571 J	3.13	0.0316	< 0.002	0.115	NA	NA	NA	NA	NA	
8.44	8.33	3.59	< 0.02	0.045	0.00029 J	2.94	0.0282	< 0.002	0.091	NA	NA	NA	NA	NA	
9.03	7.74	3.62	< 0.02	0.086	0.00136	3.58	0.041	0.000561 J	0.143	NA	NA	NA	NA	NA	
8.70	8.07	3.52	0.0036	0.065	<0.0010	4.62	0.0381	<0.0010	0.132	NA	NA	NA	NA	NA	
7.23	9.54	3.42	< 0.005	0.0307	< 0.001	2.46	0.0227	< 0.001	0.0777	NA	NA	NA	NA	NA	
6.84	5.38	3.83	0.00587 J	0.00737	0.00142 J	2.46	0.0561	<0.002	0.128	NA	NA	NA	NA	NA	
7.68	4.54	4.07	< 0.004	0.00182 J	0.00093 J	0.968	0.0242	< 0.002	0.0628	NA	NA	NA	NA	NA	
7.28	4.94	4.05	0.00515	0.00134 J	0.00181	0.995	0.0215	0.000307 J	0.0568	NA	NA	NA	NA	NA	
5.21	7.01	4.14	0.00977	0.000232 J	0.000134 J	0.497	0.0141	< 0.002	0.029	NA	NA	NA	NA	NA	
5.41	6.81	4.08	<0.00362 J	<0.01	<0.005	2.27	0.215	<0.01	0.319 J	NA	NA	NA	NA	NA	
5.56	6.66	3.72	0.005	0.000977 J	0.00134	0.837	0.0193	0.000451 J	0.0514	NA	NA	NA	NA	NA	
5.60	6.62	3.69	< 0.02	0.00282	0.0012	2.38	0.0493	< 0.002	0.125	NA	NA	NA	NA	NA	
3.93	8.29	3.97	< 0.005	0.0021	0.0013	1.64	0.0321	< 0.001	0.0825	NA	NA	NA	NA	NA	
7.92	6.65	3.38	0.0118	0.212	0.244	3.54	0.137	<0.002	0.629	NA	NA	NA	NA	NA	
8.74	5.83	3.79	0.001 J	0.0639	0.0735	0.638	0.0216	< 0.002	0.119	NA	NA	NA	NA	NA	
8.34	6.23	3.47	< 0.02	0.144	0.104	2.60	0.0905	0.000611 J	0.402	NA	NA	NA	NA	NA	
6.74	7.83	3.99	0.00396 J	0.0398	0.0186	0.534	0.0234	< 0.002	0.0887	NA	NA	NA	NA	NA	
6.85	7.72	3.95	< 0.02	0.0435	0.0285	0.812	0.0279	0.00193 J	0.121	< 0.1	0.00203 J	< 0.005	1.58	0.091	
7.21	7.36	4.22	0.00163 J	0.0485	0.0384	0.72	0.0256	0.00053 J	0.101	NA	NA	NA	NA	NA	
7.00	7.57	4.60	0.0023	0.0409	0.0294	0.898	0.0273	<0.0010	0.106	NA	NA	NA	NA	NA	
6.12	8.45	4.18	< 0.005	0.0699	0.076	1.8	0.0535	< 0.001	0.242	NA	NA	NA	NA	NA	
EQ RECAP SS			6.0-9.0	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51	0.07

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOUA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data												
Location	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals				
				Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)
FIRST WATER-BEARING ZONE															
	8.68	0.78	3.75	0.0322 J	0.000653 J	<0.002	4.29	0.192	<0.002	0.258	NA	NA	NA	NA	NA
	9.48	-0.02	3.79	0.032 J	<0.002	0.000408 J	4.26	0.196	<0.002	0.28	NA	NA	NA	NA	NA
	9.05	0.41	3.69	0.0446 J	<0.002	0.00103	4.49	0.186	0.000293 J	0.248	NA	NA	NA	NA	NA
	7.95	1.51	3.34	0.0264 J	0.000504 J	0.0022	4.41	0.195	<0.002	0.359	NA	NA	NA	NA	NA
	8.08	1.38	3.49	<0.1	<0.01	<0.005	4.9	0.209	<0.01	0.293	NA	NA	NA	NA	NA
	8.56	0.90	3.27	0.0212 J	0.000731 J	0.00302 J	4.97	0.223	0.00214 J	0.3	NA	NA	NA	NA	NA
	8.30	1.16	3.24	<0.05	<0.01	<0.005	6.12	0.245	<0.01	0.347 J	NA	NA	NA	NA	NA
	6.19	3.27	3.42	0.0342	<0.001	0.0013	3.58	0.157	<0.001	0.231	NA	NA	NA	NA	NA
SECOND WATER-BEARING ZONE															
	5.66	8.55	7.04	<0.004	0.000365 J	<0.002	0.0619	<0.002	<0.002	0.00147 J	NA	NA	NA	NA	NA
	6.62	7.59	7.10	0.00104 J	<0.002	0.000784 J	0.0659	0.000528 J	<0.002	<0.01	NA	NA	NA	NA	NA
	7.21	7.00	7.09	0.00386 J	<0.002	0.00119	0.0659	0.000773 J	0.000256 J	0.00534 J	NA	NA	NA	NA	NA
	6.00	8.21	7.18	0.00282 J	<0.002	0.000463 J	0.0709	<0.002	<0.002	<0.01	NA	NA	NA	NA	NA
	5.40	8.81	7.11	<0.02	<0.01	<0.005	0.0577	<0.01	<0.01	<0.05	NA	NA	NA	NA	NA
	5.80	8.41	6.42	0.00436 J	0.000684 J	0.00281 J	0.0543	0.00428 J	0.0021 J	0.0185 J	NA	NA	NA	NA	NA
	5.53	8.68	7.09	0.0022	<0.001	0.0029	0.057	<0.0020	<0.0010	<0.0040	NA	NA	NA	NA	NA
	4.04	10.17	7.33	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.02	NA	NA	NA	NA	NA
	10.62	4.50	6.90	<0.004	0.000358 J	<0.002	0.00411	0.00111 J	<0.002	<0.01	NA	NA	NA	NA	NA
	11.25	3.87	7.01	<0.004	0.000982 J	0.00279	0.0132	0.00124 J	<0.002	0.0323	NA	NA	NA	NA	NA
	11.55	3.57	7.10	0.00109 J	0.000304 J	0.000880 J	0.00546	0.000665 J	0.000269 J	0.00261 J	NA	NA	NA	NA	NA
	10.72	4.40	7.11	0.00165 J	0.000146 J	0.000222 J	0.016	0.00105 J	<0.002	0.00377 J	NA	NA	NA	NA	NA
	10.33	4.79	7.17	<0.02	0.00332 J	0.00275 J	0.00314 J	<0.01	0.00183 J	0.045 J	NA	NA	NA	NA	NA
	10.55	4.57	6.47	<0.004	0.000131 J	0.00157	0.00715	0.00118 J	0.000424 J	0.00595 J	NA	NA	NA	NA	NA
	10.88	4.24	7.08	<0.004	0.000351 J	0.000252 J	0.00252	0.00118 J	<0.002	0.0066 J	NA	NA	NA	NA	NA
	9.50	5.62	7.22	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.02	NA	NA	NA	NA	NA
	7.91	6.89	6.60	<0.004	0.000362 J	0.00747	0.83	0.00262	<0.002	0.00621 J	NA	NA	NA	NA	NA
	8.90	5.90	6.65	<0.004	0.000618 J	0.00535	0.783	0.00201	<0.002	0.00783 J	NA	NA	NA	NA	NA
	9.72	5.08	6.63	0.00214 J	<0.002	0.00250	0.838	0.00189 J	0.000279 J	0.00237 J	NA	NA	NA	NA	NA
	8.05	6.75	6.66	0.00114 J	0.0001 J	0.00259	0.0911	0.00107 J	<0.002	0.0236	NA	NA	NA	NA	NA
	7.30	7.50	6.60	<0.004	0.000578 J	0.00321	1.8	0.00447	<0.002	0.00619 J	NA	NA	NA	NA	NA
	7.70	7.10	7.64	0.00516 J	0.000687 J	0.00304 J	0.722	0.00529 J	0.00211 J	0.0256 J	NA	NA	NA	NA	NA
	8.11	6.69	6.50	<0.02	0.00159 J	0.000494 J	0.824	<0.01	<0.01	0.0115 J	NA	NA	NA	NA	NA
	6.19	8.61	6.64	<0.005	<0.001	0.0011	0.419	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
EO RECAP SS				6.5-8.5	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOUA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data												
Location	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals				
				Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)
SECOND WATER-BEARING ZONE															
3	15.39	1.99	6.66	<0.004	0.000358 J	<0.002	0.00743	<0.002	<0.002	0.00205 J	NA	NA	NA	NA	NA
3	16.92	0.46	6.69	0.00134 J	0.000655 J	0.00318	0.0367	0.00241	<0.002	0.00964 J	<0.004	0.000372 J	<0.001	<0.002	0.0006
3	16.62	0.76	6.67	0.00242 J	<0.002	0.00197	0.0126	0.00142 J	0.000279 J	0.0154	0.00218 J	<0.002	0.000652 J	<0.002	0.0006
3	14.90	2.48	6.66	0.00327 J	0.000249 J	0.011	0.0999	0.00728	<0.002	0.0314	NA	NA	NA	NA	NA
3	14.45	2.93	6.59	0.00112 J	<0.002	0.00079 J	0.0193	0.000887 J	<0.002	0.00519 J	NA	NA	NA	NA	NA
3	15.62	1.76	6.19	<0.004	0.000149 J	0.00249	0.0246	0.00188 J	0.000437 J	0.0336	0.000778 J	0.000153 J	<0.001	<0.002	0.0005
3	14.20	3.18	6.50	<0.004	0.000666 J	0.00101	0.0195	0.000858 J	<0.002	0.0194	NA	NA	NA	NA	NA
3	12.62	4.76	6.49	<0.005	<0.001	0.0036	0.0628	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
7	7.61	6.96	5.90	<0.05	0.000412 J	<0.002	1.22	0.0442	<0.002	0.0527	<0.05	<0.002	<0.002	1.69	0.0628
7	8.39	6.18	6.08	0.00448 J	0.000956 J	0.0000898 J	1.09	0.0344	<0.002	0.043	NA	NA	NA	NA	NA
7	9.24	5.33	6.15	<0.02	<0.002	0.000913 J	1.22	0.0283	0.000261 J	0.0323	<0.02	<0.002	0.000724 J	1.29	0.03
7	8.08	6.49	5.94	<0.02	0.000256 J	0.000223 J	1.84	0.0715	<0.002	0.0809	<0.02	0.000095 J	<0.001	1.88	0.16
7	7.23	7.34	5.78	<0.1	<0.01	<0.005	1.58	0.067	<0.01	0.125	<0.004	0.0383	0.0232	0.755	0.03
7	7.49	7.08	5.59	<0.00362	<0.01	<0.005	1.52 J	0.0602	<0.01	<0.0839	NA	NA	NA	NA	NA
7	8.00	6.57	5.92	0.0043	<0.0010	<0.0010	1.2	0.0323	<0.0010	0.0319	NA	NA	NA	NA	NA
7	5.92	8.65	6.15	<0.005	<0.001	<0.001	1.32	0.0397	<0.001	0.0923	0.0069	<0.001	0.0011	1.40	0.03
0	8.40	5.80	6.25	0.00248 J	0.00034 J	<0.002	12	0.0404	<0.002	0.00743 J	NA	NA	NA	NA	NA
0	8.91	5.29	6.01	0.0169	0.000909 J	0.000361 J	7.56	0.0264	<0.002	0.00753 J	NA	NA	NA	NA	NA
0	9.39	4.81	6.49	0.00323 J	0.000332 J	0.00136	18.1	0.0465	0.000273 J	0.0105	NA	NA	NA	NA	NA
0	8.55	5.65	6.16	<0.02	0.000138 J	0.0000547 J	17.7	0.0729	<0.002	0.0105	NA	NA	NA	NA	NA
0	7.98	6.22	6.30	<0.00362 J	<0.01	<0.005	<0.01	<0.0013	<0.01	<0.05 J	NA	NA	NA	NA	NA
0	8.10	6.10	5.73	<0.02	0.000454 J	0.00259 J	10.1	0.0404	0.00211 J	0.0132 J	NA	NA	NA	NA	NA
0	8.60	5.60	6.21	0.0029	<0.0010	0.0012	26	0.0963	<0.0010	0.007	NA	NA	NA	NA	NA
0	7.36	6.84	6.26	0.0025	<0.001	<0.001	17.7	0.0785	0.0013	<0.02	NA	NA	NA	NA	NA
0	1.36	9.74	7.01	0.0018 J	<0.002	<0.002	0.0389	<0.002	<0.002	0.00364 J	NA	NA	NA	NA	NA
0	2.03	9.07	7.00	0.00214 J	0.000882 J	0.0198	0.0382	0.001 J	<0.002	0.022	NA	NA	NA	NA	NA
0	2.01	9.09	7.08	<0.00407	<0.002	0.00128	0.0367	0.000285 J	<0.002	<0.01	NA	NA	NA	NA	NA
0	1.45	9.65	6.60	0.00213 J	0.000134 J	0.0014	0.00133 J	<0.002	<0.002	0.00818 J	NA	NA	NA	NA	NA
0	1.47	9.63	7.01	0.00282 J	<0.002	0.000245 J	0.0136	0.000485 J	<0.002	0.00384 J	NA	NA	NA	NA	NA
0	1.80	9.30	6.57	0.00191 J	<0.002	<0.001	<0.002	<0.002	<0.002	0.145	NA	NA	NA	NA	NA
0	1.20	9.90	6.82	<0.004	0.000654 J	0.000406 J	0.0316	0.000449 J	<0.002	0.00437 J	NA	NA	NA	NA	NA
0	0.70	10.40	7.09	<0.005	<0.001	<0.001	0.0309	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
EQ RECAP SS				6.5-8.5	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data											
Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals				
			Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)
SECOND WATER-BEARING ZONE														
6.87	9.45	7.04	<0.004	0.000417 J	<0.002	0.00932	0.00119 J	<0.002	0.00254 J	NA	NA	NA	NA	NA
8.29	8.03	7.10	<0.004	<0.002	0.00019 J	0.0244	0.0015 J	<0.002	<0.01	NA	NA	NA	NA	NA
9.19	7.13	7.12	0.00155 J	<0.002	0.000920 J	0.0267	0.00185 J	0.000266 J	0.00838 J	NA	NA	NA	NA	NA
7.90	8.42	7.06	0.00141 J	<0.002	<0.001	<0.00414	<0.002	<0.002	<0.01	NA	NA	NA	NA	NA
6.49	9.83	7.12	<0.02	<0.01	<0.005	0.0141	<0.01	<0.01	<0.05	NA	NA	NA	NA	NA
6.98	9.34	7.02	<0.00362	<0.01	<0.005	0.021 J	<0.01	<0.01	<0.05	NA	NA	NA	NA	NA
6.75	9.57	7.16	<0.0010	<0.0010	<0.0010	0.0229	<0.0020	<0.0010	<0.0040	NA	NA	NA	NA	NA
4.06	12.26	7.14	<0.005	<0.001	<0.001	<0.01	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
5.58	5.79	7.15	<0.004	0.000383 J	<0.002	0.0720	0.000914 J	<0.002	0.00522 J	NA	NA	NA	NA	NA
5.95	5.42	7.13	0.000943 J	0.000637 J	0.00118	0.0647	0.00105 J	<0.002	0.00428 J	NA	NA	NA	NA	NA
7.39	3.98	7.44	0.00375 J	<0.002	0.000901 J	0.0188	0.00153 J	0.000264 J	0.00453 J	NA	NA	NA	NA	NA
3.91	7.46	7.21	0.00142 J	0.000103 J	<0.001	0.0149	0.00119 J	<0.002	0.00526 J	NA	NA	NA	NA	NA
4.00	7.37	7.12	<0.02	<0.01	<0.005	0.0193	<0.01	<0.01	<0.05	NA	NA	NA	NA	NA
4.09	7.28	6.43	<0.02	0.000474 J	0.00278 J	0.0655	0.00429 J	0.00226 J	0.00996 J	NA	NA	NA	NA	NA
6.50	4.87	6.93	<0.002	<0.0010	<0.0010	0.0357	0.0023 J	<0.0010	<0.004	NA	NA	NA	NA	NA
2.50	8.87	6.60	<0.005	<0.001	<0.001	0.0118	<0.01	<0.005	<0.02	NA	NA	NA	NA	NA
7.07	8.11	6.65	<0.004	0.00117 J	0.0538	0.423	0.00289	<0.002	0.00442 J	NA	NA	NA	NA	NA
7.35	7.83	6.81	0.00237 J	0.00116 J	0.0269	0.42	0.00257	<0.002	0.00419 J	NA	NA	NA	NA	NA
9.09	6.09	6.90	<0.00569	<0.002	0.0498	0.314	0.00273	<0.002	<0.0101	NA	NA	NA	NA	NA
6.98	8.20	6.60	0.0023 J	<0.002	0.0223	0.23	<0.00222	<0.002	<0.0125	NA	NA	NA	NA	NA
5.90	9.28	6.73	0.00275 J	0.000541 J	0.0263	0.337	0.00276	<0.002	0.00961 J	NA	NA	NA	NA	NA
5.88	9.30	6.84	<0.02	0.00107 J	0.0514	0.279	0.00186 J	0.00226 J	0.00701 J	NA	NA	NA	NA	NA
5.58	9.60	6.98	<0.02	0.00186 J	0.0145	0.0224	<0.01	<0.01	0.0093 J	NA	NA	NA	NA	NA
4.12	11.06	6.79	<0.005	<0.001	0.015	0.0605	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
6.63	7.22	6.85	<0.00133 J	<0.002	<0.002	0.0168	0.00171 J	<0.002	0.00359 J	NA	NA	NA	NA	NA
7.49	6.36	6.90	<0.004	0.00112 J	<0.001	0.0259	0.00114 J	<0.002	0.00301 J	NA	NA	NA	NA	NA
8.40	5.45	6.90	<0.004	<0.002	0.000721 J	0.0274	0.00227	<0.002	<0.01	NA	NA	NA	NA	NA
6.65	7.20	7.01	0.00099 J	0.000134 J	<0.001	0.00227	0.003	<0.002	0.00622 J	NA	NA	NA	NA	NA
5.85	8.00	6.88	<0.02	<0.01	<0.005	0.0143	<0.01	<0.01	<0.05	NA	NA	NA	NA	NA
6.25	7.60	5.96	<0.02	0.000754 J	0.00282 J	0.0266	0.00478 J	0.00211 J	0.0154 J	NA	NA	NA	NA	NA
6.22	7.63	7.05	<0.02	0.00163 J	<0.005	0.00702 J	0.00632 J	<0.01	0.0169 J	NA	NA	NA	NA	NA
4.44	9.41	6.98	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.02	NA	NA	NA	NA	NA
EQ RECAP SS			6.5-8.5	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data											
Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals				
			Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)

SECOND WATER-BEARING ZONE

3	7.99	7.29	6.69	<0.004	0.000456 J	<0.002	0.019	0.00171 J	<0.002	0.0032 J	NA	NA	NA	NA
3	9.00	6.28	6.90	< 0.004	0.000772 J	0.000276 J	0.0397	0.00168 J	< 0.002	0.00541 J	NA	NA	NA	NA
3	9.98	5.30	7.05	0.00202 J	<0.002	0.000914 J	0.0753	0.00216	0.000260 J	0.00462 J	NA	NA	NA	NA
3	7.75	7.53	7.01	0.000776 J	<0.002	0.000762 J	<0.00921	<0.0025	< 0.002	<0.01	NA	NA	NA	NA
3	7.20	8.08	6.70	< 0.004	< 0.002	0.000058 J	0.00753	0.00216	< 0.002	0.00474 J	NA	NA	NA	NA
3	7.64	7.64	6.47	< 0.004	0.000196 J	0.00117	0.00882	0.00214	0.00043 J	0.00469 J	NA	NA	NA	NA
3	7.73	7.55	6.87	< 0.004	< 0.002	< 0.001	0.0577	0.0029	< 0.002	< 0.01	NA	NA	NA	NA
3	4.60	10.68	6.97	< 0.001	< 0.001	< 0.001	0.0575	< 0.002	< 0.001	0.004	NA	NA	NA	NA
3	8.94	6.79	6.90	<0.004	0.000375 J	<0.002	0.177	0.000606 J	<0.002	0.00319 J	NA	NA	NA	NA
3	9.87	5.86	6.97	< 0.004	0.000661 J	0.00029 J	0.196	0.000842 J	< 0.002	0.00562 J	NA	NA	NA	NA
3	10.71	5.02	6.94	0.00295 J	<0.002	0.000792 J	0.192	0.000715 J	0.000254 J	0.00461 J	NA	NA	NA	NA
3	8.82	6.91	7.33	0.000834 J	0.000119 J	0.000106 J	0.0646	0.000705 J	< 0.002	0.00596 J	NA	NA	NA	NA
3	8.15	7.58	6.88	0.00166 J	< 0.002	< 0.001	0.234	0.000707 J	< 0.002	0.00402 J	NA	NA	NA	NA
3	8.55	7.18	6.24	0.00158 J	0.000227 J	0.000568 J	0.181	0.00203	0.000423 J	0.00972 J	NA	NA	NA	NA
3	8.25	7.48	6.72	< 0.004	0.000648 J	< 0.001	0.18	0.000801 J	< 0.002	0.00376 J	NA	NA	NA	NA
3	5.74	9.99	6.85	< 0.005	< 0.001	< 0.001	0.217	< 0.01	< 0.001	< 0.02	NA	NA	NA	NA
EQ RECAP SS	6.5-8.5	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51	0.07	

THIRD WATER-BEARING ZONE

5	2.30	12.46	8.17	<0.004	0.000351 J	0.000695 J	0.0345	0.000531 J	<0.002	<0.01	NA	NA	NA	NA
5	3.00	11.76	7.90	< 0.004	0.00115 J	0.00722	0.0153	0.00262	< 0.002	0.0404	NA	NA	NA	NA
5	2.71	12.05	8.38	0.00208 J	0.000289 J	0.00181	0.0368	0.000590 J	0.000269 J	0.00491 J	NA	NA	NA	NA
5	2.00	12.76	7.34	0.00178 J	0.000208 J	0.00152	0.0372	0.00251	< 0.002	0.106	NA	NA	NA	NA
5	2.20	12.56	7.97	<0.00362 J	<0.01	<0.005	0.0441	<0.0013	<0.01	<0.05	NA	NA	NA	NA
5	2.56	12.20	8.11	0.00144 J	0.00017 J	0.0025	0.0363	0.00125 J	0.000424 J	0.0106	NA	NA	NA	NA
5	1.85	12.91	7.07	0.00189 J	0.000357 J	0.0011	0.0388	0.00377	< 0.002	0.00369 J	NA	NA	NA	NA
5	1.15	13.61	8.28	< 0.005	< 0.001	0.002	0.0394	< 0.01	< 0.001	< 0.02	NA	NA	NA	NA
2	3.62	10.80	7.28	0.00134 J	0.000351 J	<0.002	0.00202	0.00058 J	<0.002	0.00466 J	NA	NA	NA	NA
2	4.60	9.82	7.10	0.00111 J	0.000988 J	0.00238	0.0177	0.000609 J	< 0.002	0.0139	NA	NA	NA	NA
2	4.23	10.19	7.27	0.00193 J	0.000283 J	0.00145	0.0328	0.000446 J	0.000264 J	0.00413 J	NA	NA	NA	NA
2	3.75	10.67	7.03	0.00191 J	0.000115 J	0.000606 J	0.0101	0.00072 J	< 0.002	0.00616 J	NA	NA	NA	NA
2	3.60	10.82	7.05	0.0022 J	0.000674 J	0.000753 J	0.00674	0.000866 J	0.000451 J	0.00442 J	NA	NA	NA	NA
2	4.00	10.42	6.87	0.00148 J	0.00011 J	0.00114	0.0358	0.000613 J	0.000421 J	0.00816 J	NA	NA	NA	NA
2	3.50	10.92	7.04	0.00132 J	0.000337 J	0.000106 J	0.0121	0.000497 J	< 0.002	0.00362 J	NA	NA	NA	NA
2	2.82	11.60	7.52	< 0.005	< 0.001	< 0.001	0.0144	< 0.01	< 0.001	< 0.02	NA	NA	NA	NA

HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data											
Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals				
			Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)
THIRD WATER-BEARING ZONE														
3.32	12.43	9.77	0.00409 J	<0.002	0.00354	0.0029	0.000723 J	<0.002	0.00343 J	NA	NA	NA	NA	NA
4.05	11.70	9.89	0.00461	<0.002	0.00547	0.00372	0.00182 J	<0.002	<0.01	NA	NA	NA	NA	NA
3.79	11.96	9.88	0.00673	<0.002	0.00654	0.00395	0.00125 J	0.000421 J	0.00517 J	NA	NA	NA	NA	NA
3.11	12.64	9.79	0.00519	0.000229 J	0.00535	0.00351	0.00133 J	<0.002	0.0072 J	NA	NA	NA	NA	NA
3.13	12.62	9.95	0.00569	<0.002	0.00488	0.00347	0.00105 J	<0.002	0.0127	NA	NA	NA	NA	NA
3.65	12.10	9.95	0.00412	0.000219 J	0.0054	0.0038	0.00144 J	0.000424 J	0.00811 J	NA	NA	NA	NA	NA
2.90	12.85	9.82	<0.004	<0.002	0.00575	0.00664	<0.002	<0.002	<0.01	NA	NA	NA	NA	NA
2.30	13.45	9.82	<0.005	<0.001	0.0053	<0.01	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
4.77	10.26	7.26	0.00633	0.000355 J	<0.002	0.0185	0.000478 J	<0.002	<0.01	NA	NA	NA	NA	NA
5.49	9.54	7.36	0.00754	0.000602 J	0.000296 J	0.0239	<0.002	<0.002	0.00372 J	NA	NA	NA	NA	NA
5.58	9.45	7.35	0.00866	<0.002	0.00165	0.0234	0.000532 J	0.000253 J	0.0123	NA	NA	NA	NA	NA
5.00	10.03	7.40	0.00766	0.0000961 J	0.000122 J	0.00421	0.00112 J	<0.002	0.00667 J	NA	NA	NA	NA	NA
4.91	10.12	7.28	0.00765	<0.002	<0.001	0.00703	<0.002	<0.002	0.00203 J	NA	NA	NA	NA	NA
5.50	9.53	7.23	0.00586	0.000102 J	0.000708 J	0.038	0.000448 J	0.000422 J	0.00455 J	NA	NA	NA	NA	NA
4.71	10.32	7.40	0.00538	0.000635 J	0.000236 J	0.0237	0.000565 J	<0.002	0.00392 J	NA	NA	NA	NA	NA
4.09	10.94	7.49	0.0085	<0.001	<0.001	0.0123	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
EQ RECAP SS	6.5-8.5	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51	0.07	0.07
WATER WELLS														
NA	NA	8.30	0.00137 J	0.000364 J	0.00164 J	0.0222	<0.002	<0.002	0.00145 J	NA	NA	NA	NA	NA
NA	NA	8.36	0.00172 J	0.000637 J	0.00334	0.0252	0.000268 J	<0.002	0.00393 J	NA	NA	NA	NA	NA
NA	NA	8.26	0.00368 J	<0.002	0.00379	0.0264	0.000651 J	0.000256 J	0.00577 J	NA	NA	NA	NA	NA
NA	NA	8.20	0.00206 J	0.000123 J	0.00343	0.0239	0.000616 J	<0.002	0.0288	NA	NA	NA	NA	NA
NA	NA	9.08	0.00174 J	<0.002	0.00192	0.0241	<0.002	<0.002	0.00396 J	NA	NA	NA	NA	NA
NA	NA	8.11	<0.004	0.000106 J	0.00226	0.0233	0.000572 J	0.000426 J	0.0425	NA	NA	NA	NA	NA
NA	NA	8.46	<0.004	0.00064 J	0.00133	0.0243	0.00217	<0.002	0.00498 J	NA	NA	NA	NA	NA
NA	NA	8.62	<0.005	<0.001	0.0012	0.0243	<0.01	<0.001	<0.02	NA	NA	NA	NA	NA
NA	NA	8.81	<0.004	0.000353 J	<0.002	0.00247	<0.002	<0.002	0.00136 J	NA	NA	NA	NA	NA
NA	NA	8.87	<0.004	0.000605 J	0.0000632 J	0.00304	<0.002	<0.002	0.00138 J	NA	NA	NA	NA	NA
NA	NA	8.77	<0.004	<0.002	0.000733 J	<0.00284	<0.002	<0.002	<0.01	NA	NA	NA	NA	NA
NA	NA	8.51	<0.004	0.0000898 J	0.00457	0.00333	0.000438 J	<0.002	0.0222	NA	NA	NA	NA	NA
NA	NA	8.65	<0.004	<0.002	<0.001	0.00299	<0.002	<0.002	0.00626 J	NA	NA	NA	NA	NA
NA	NA	8.47	<0.004	0.0000906 J	0.000568 J	0.00319	<0.002	0.000423 J	0.00376 J	NA	NA	NA	NA	NA
NA	NA	8.41	<0.004	0.000638 J	0.00604	0.004	0.000482 J	<0.002	0.0174	NA	NA	NA	NA	NA
NA	NA	9.11	<0.005	<0.001	<0.001	<0.01	<0.01	<0.01	<0.02	NA	NA	NA	NA	NA

**HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOUA, LOUISIANA
AGENCY INTEREST NO. 2328**

Monitoring/Sampling Period: Past 8 Quarters

Electrochemical Data			Groundwater Analytical Data											
Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals							Dissolved Metals				
			Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)
WATER WELLS														
NA	NA	8.19	<0.00133 J	<0.002	<0.002	0.0158	<0.002	<0.002	<0.01	NA	NA	NA	NA	NA
NA	NA	8.16	< 0.004	0.00061 J	0.000394 J	0.017	< 0.002	< 0.002	0.00451 J	NA	NA	NA	NA	NA
NA	NA	8.20	0.00177 J	<0.002	0.00104	0.0184	<0.002	0.000273 J	0.00888 J	NA	NA	NA	NA	NA
NA	NA	7.69	< 0.004	0.0000958 J	0.000719 J	0.0172	0.000668 J	< 0.002	0.0134	NA	NA	NA	NA	NA
NA	NA	7.98	< 0.004	< 0.002	< 0.001	0.0173	< 0.002	< 0.002	0.00341 J	NA	NA	NA	NA	NA
NA	NA	7.81	< 0.004	0.000102 J	0.00104	0.018	0.00177 J	0.000427 J	0.00823 J	NA	NA	NA	NA	NA
NA	NA	7.69	< 0.004	0.000639 J	0.00044 J	0.0193	0.000976 J	< 0.002	0.00452 J	NA	NA	NA	NA	NA
NA	NA	8.32	< 0.005	< 0.001	< 0.001	0.0179	< 0.01	< 0.001	< 0.02	NA	NA	NA	NA	NA
NA	NA	8.91	<0.004	0.00034 J	<0.002	0.00253	<0.002	<0.002	0.00164 J	NA	NA	NA	NA	NA
NA	NA	8.76	< 0.004	0.000615 J	0.000934 J	0.00369	< 0.002	< 0.002	0.00237 J	NA	NA	NA	NA	NA
NA	NA	8.70	0.00198 J	<0.002	0.00505	0.00369	0.000704 J	0.000251 J	0.00740 J	NA	NA	NA	NA	NA
NA	NA	8.50	< 0.004	0.0000963 J	0.00119	0.000726 J	0.000394 J	< 0.002	0.00686 J	NA	NA	NA	NA	NA
NA	NA	8.70	0.000872 J	< 0.002	0.00107	0.00324	0.000908 J	< 0.002	0.00325 J	NA	NA	NA	NA	NA
NA	NA	8.88	< 0.004	0.000117 J	0.00205	0.00676	0.00028 J	0.000421 J	0.00529 J	NA	NA	NA	NA	NA
NA	NA	8.52	< 0.004	0.000653 J	0.0009 J	0.00452	< 0.002	< 0.002	0.00306 J	NA	NA	NA	NA	NA
NA	NA	8.65	< 0.005	< 0.001	0.001	< 0.01	< 0.01	< 0.01	< 0.02	NA	NA	NA	NA	NA
NA	NA	8.98	<0.004	0.00034 J	<0.002	0.00346	<0.002	<0.002	0.00235 J	NA	NA	NA	NA	NA
NA	NA	9.05	< 0.004	0.000618 J	0.000186 J	0.00358	< 0.002	< 0.002	0.0118	NA	NA	NA	NA	NA
NA	NA	9.09	0.00178 J	<0.002	0.000779 J	0.00434	<0.002	0.000255 J	0.0142	NA	NA	NA	NA	NA
NA	NA	9.06	< 0.004	0.000106 J	< 0.001	0.00484	< 0.002	< 0.002	0.00646 J	NA	NA	NA	NA	NA
NA	NA	9.24	< 0.004	< 0.002	< 0.001	0.00366	< 0.002	< 0.002	0.0119	NA	NA	NA	NA	NA
NA	NA	9.33	< 0.000724	< 0.001	< 0.001	0.0039 J	< 0.002	< 0.002	< 0.013	NA	NA	NA	NA	NA
NA	NA	9.23	< 0.004	0.000652 J	0.000244 J	0.00559	0.000412 J	< 0.002	0.021	NA	NA	NA	NA	NA
NA	NA	8.15	< 0.005	< 0.005	< 0.001	< 0.01	< 0.01	< 0.001	< 0.02	NA	NA	NA	NA	NA
EQ RECAP SS		6.5-8.5	0.010	0.005	0.015	0.51	0.073	0.0020	1.1	0.010	0.005	0.015	0.51	0.07

elevation - (depth to fluid) = Corrected GROUNDWATER (GW) elevation

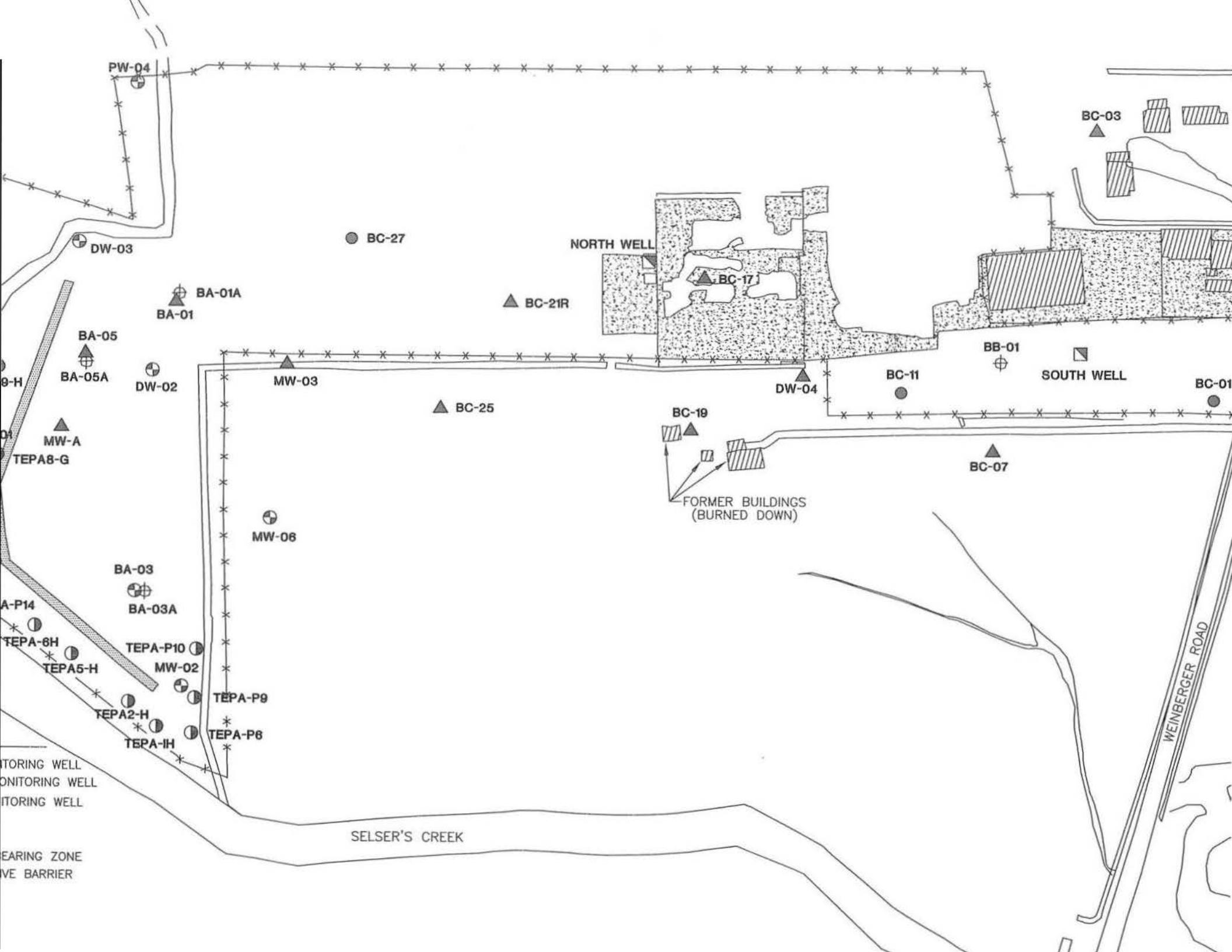
Standards were found in previous reports for Lead and pH only. The additional screening standards are from the LDEQ RECAP Screening Standards (SS), by the LDEQ.

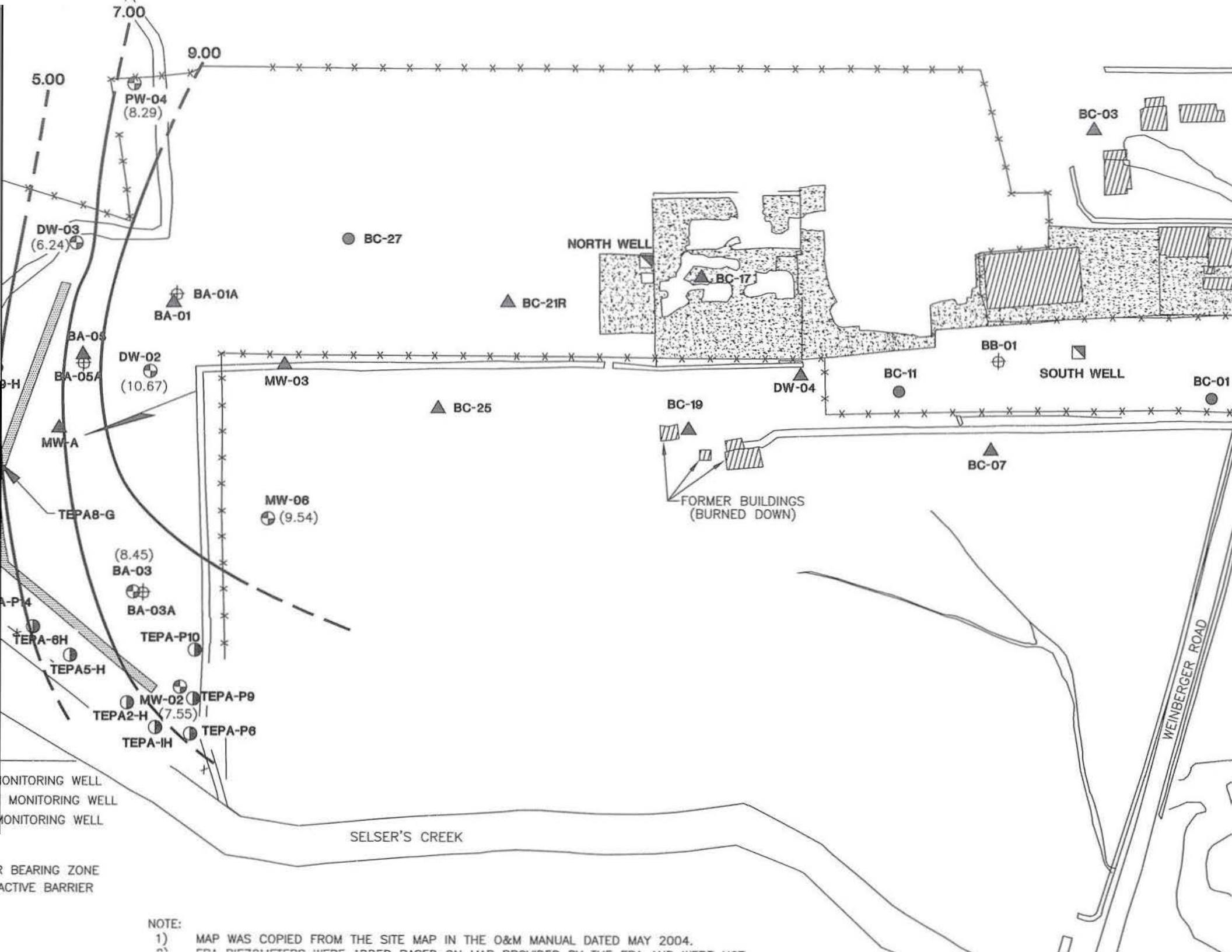
Standard for pH = 7.0 s.u.; however EPA Drinking Water Standards for pH = 6.5-8.5 s.u. and the EPA Storm Water Discharge Standards for mg used for comparison purposes.

Site Cleanup or RECAP SS

The analytical reports are used for non-detect results

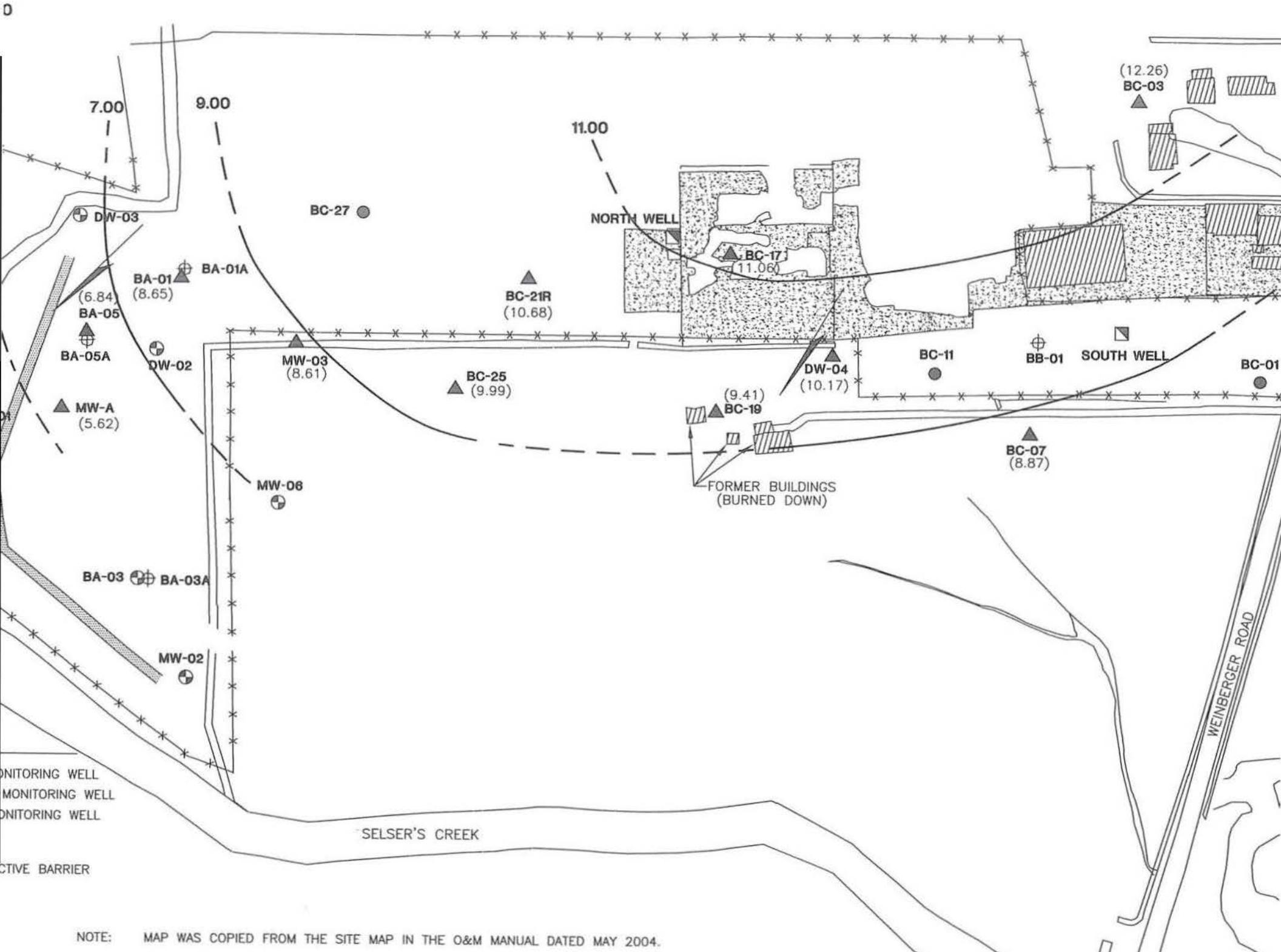
FIGURES

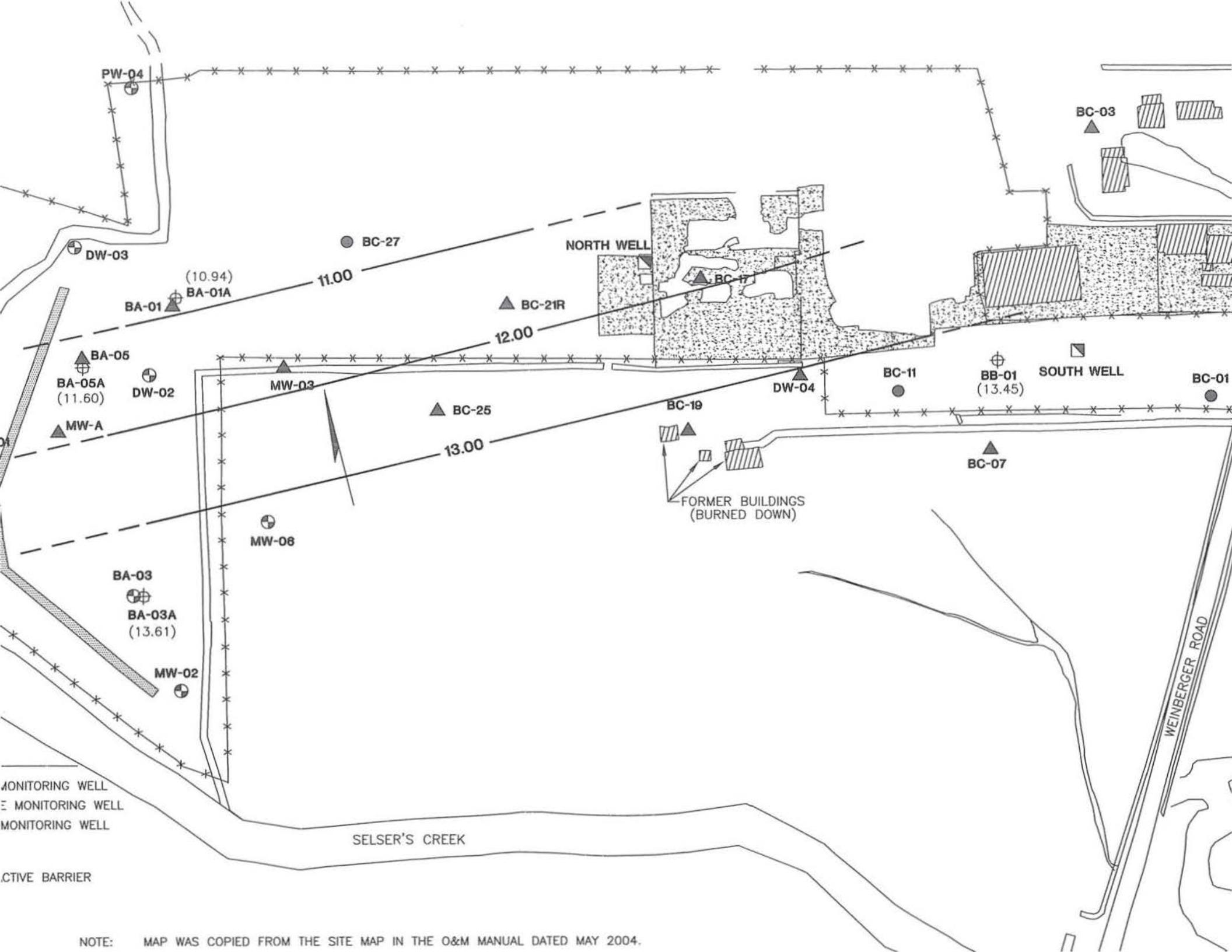


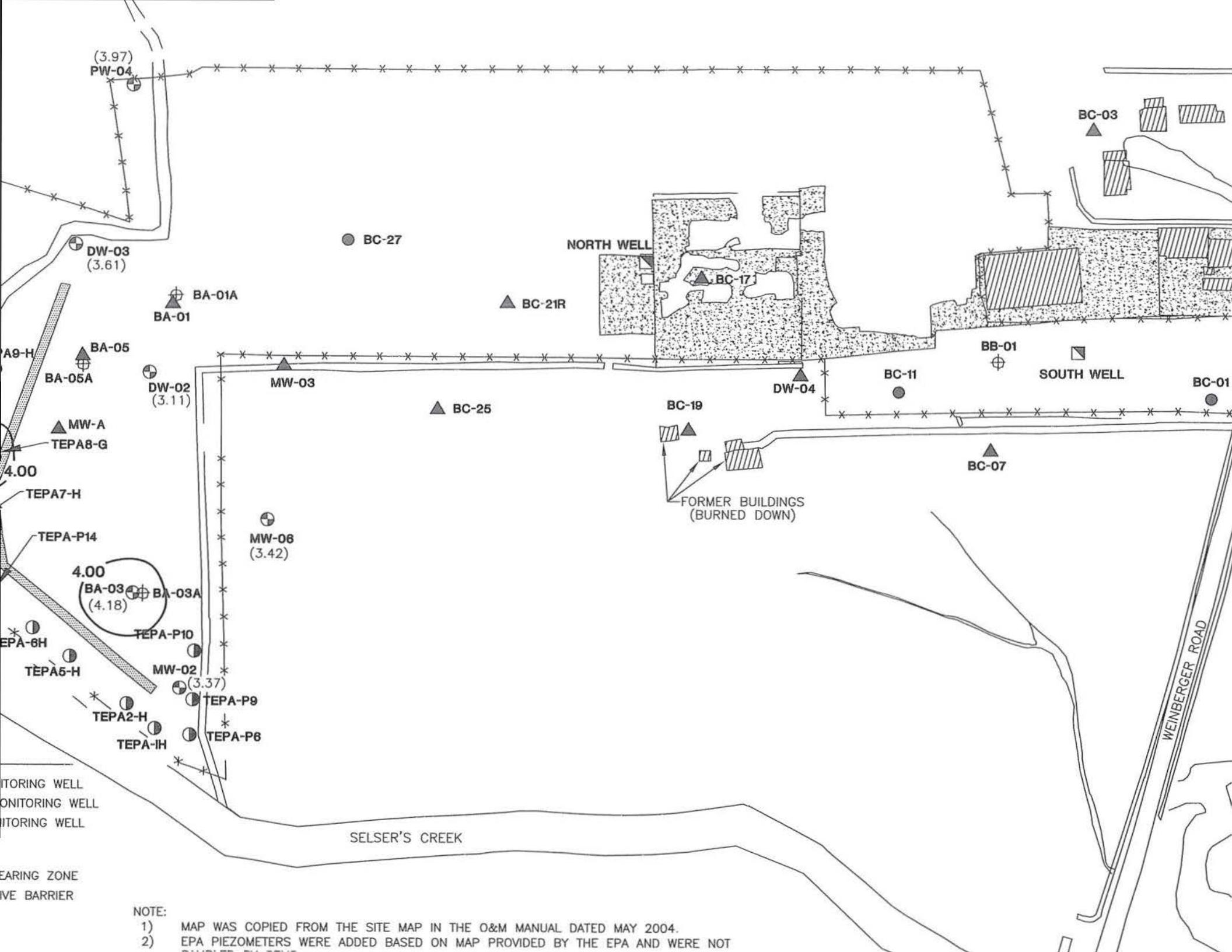


NOTE:

- 1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) EPA METERHOLERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT

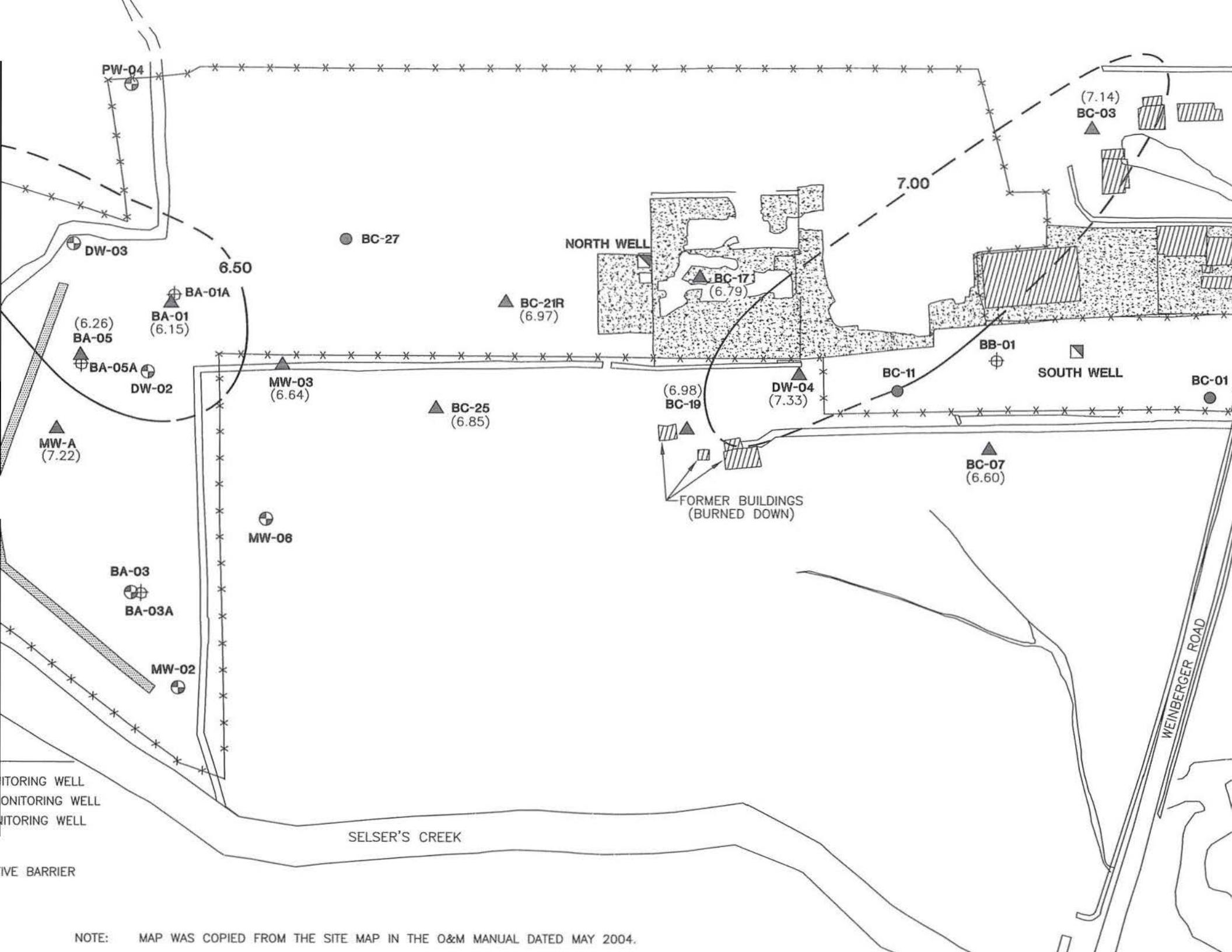


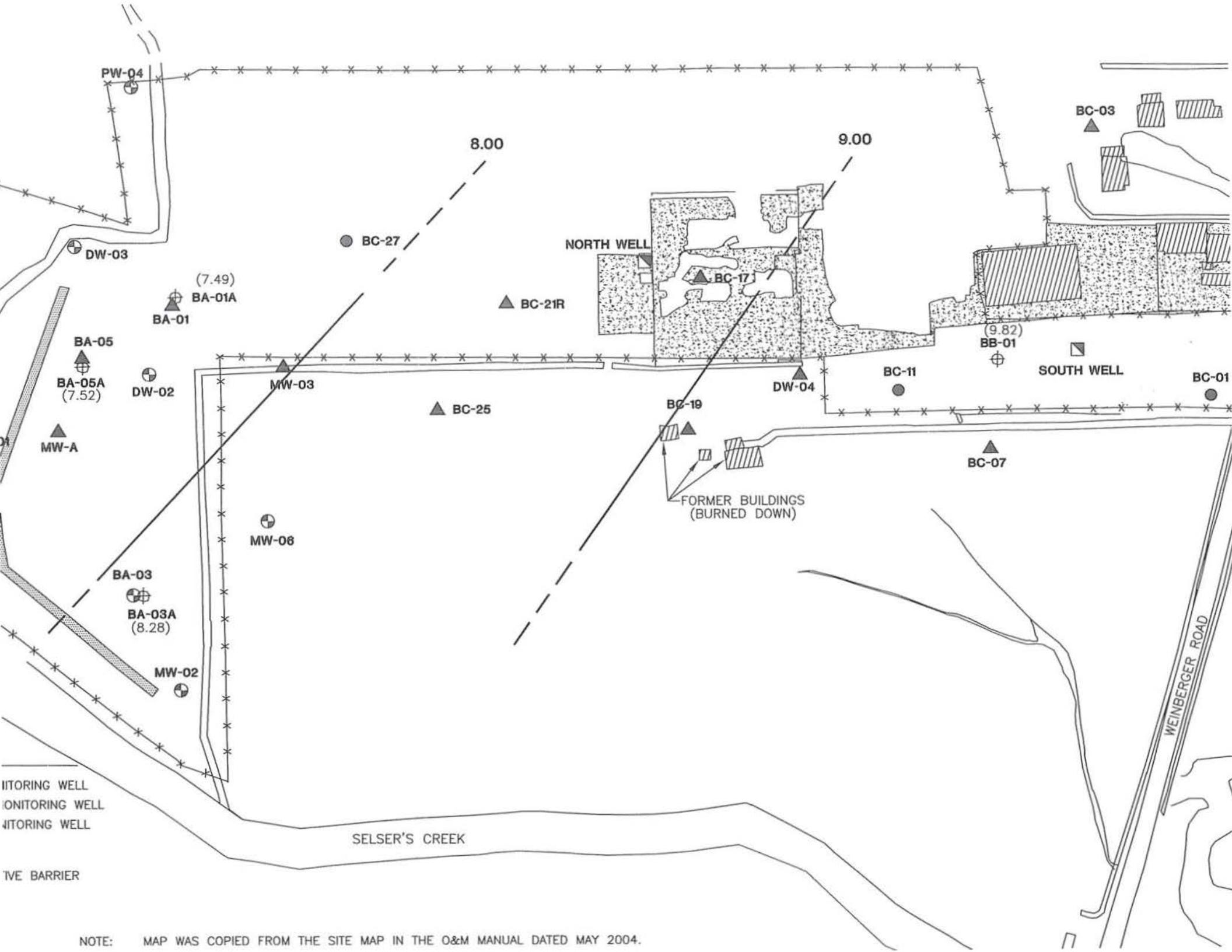


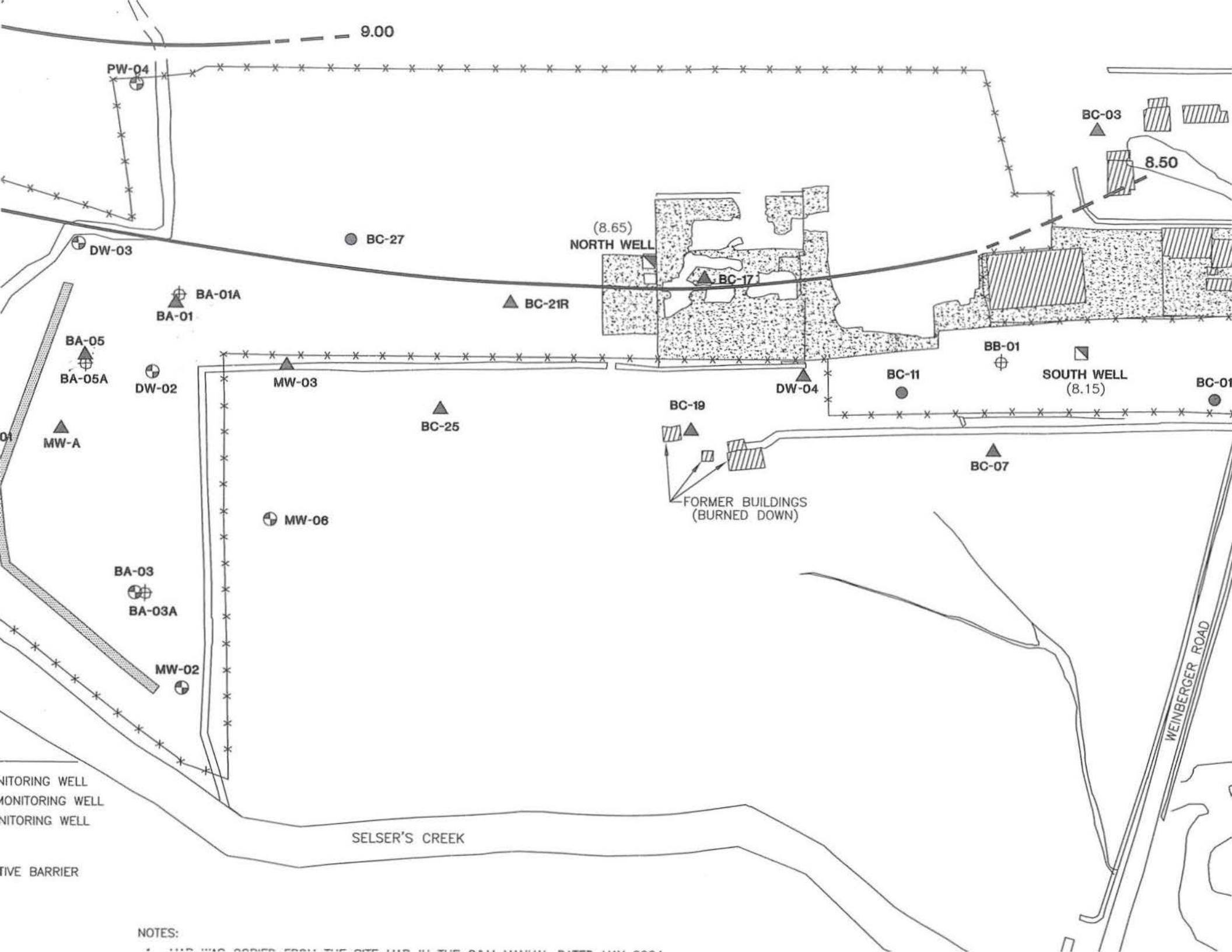


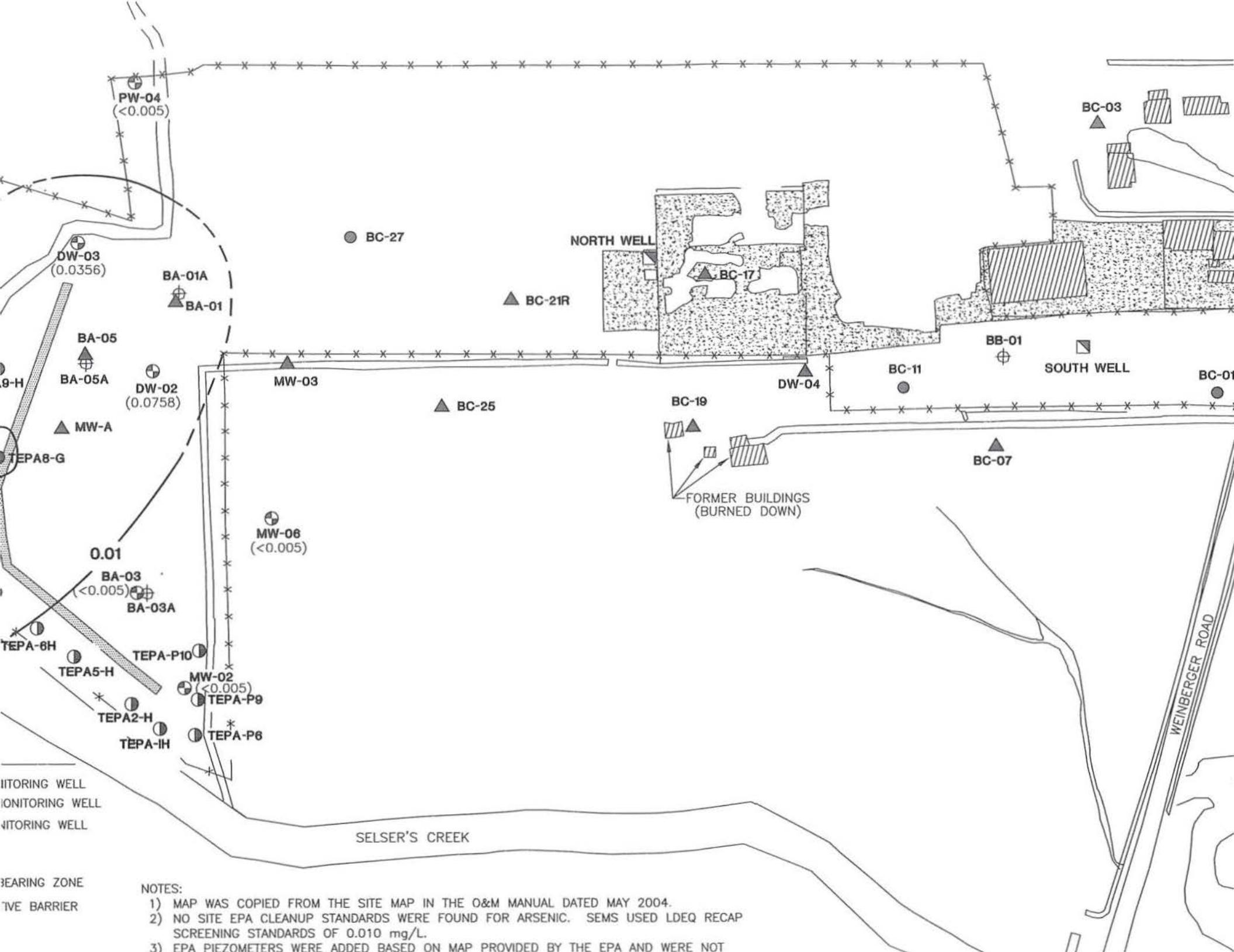
NOTE:

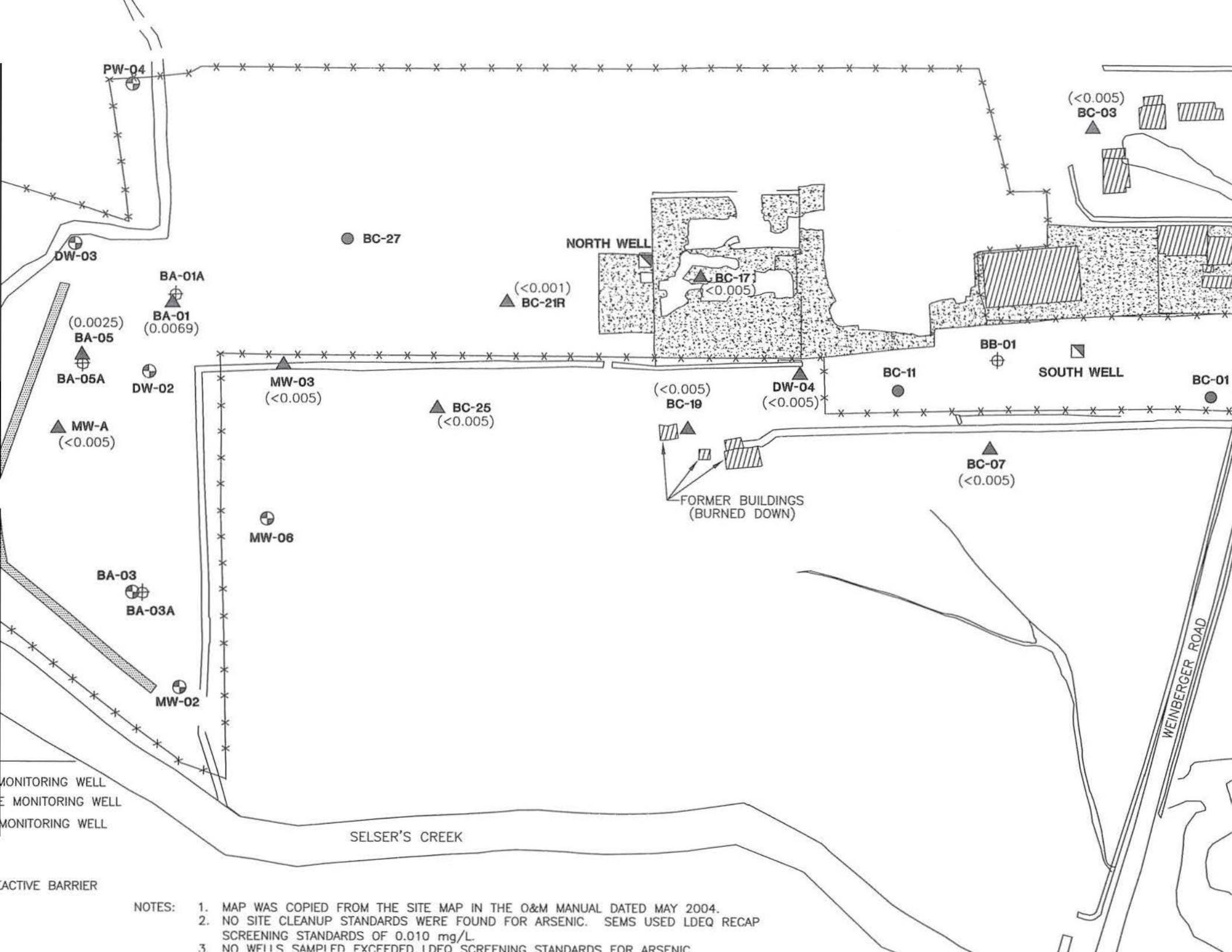
- 1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
- 2) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SHOWN ON THE ORIGINAL.

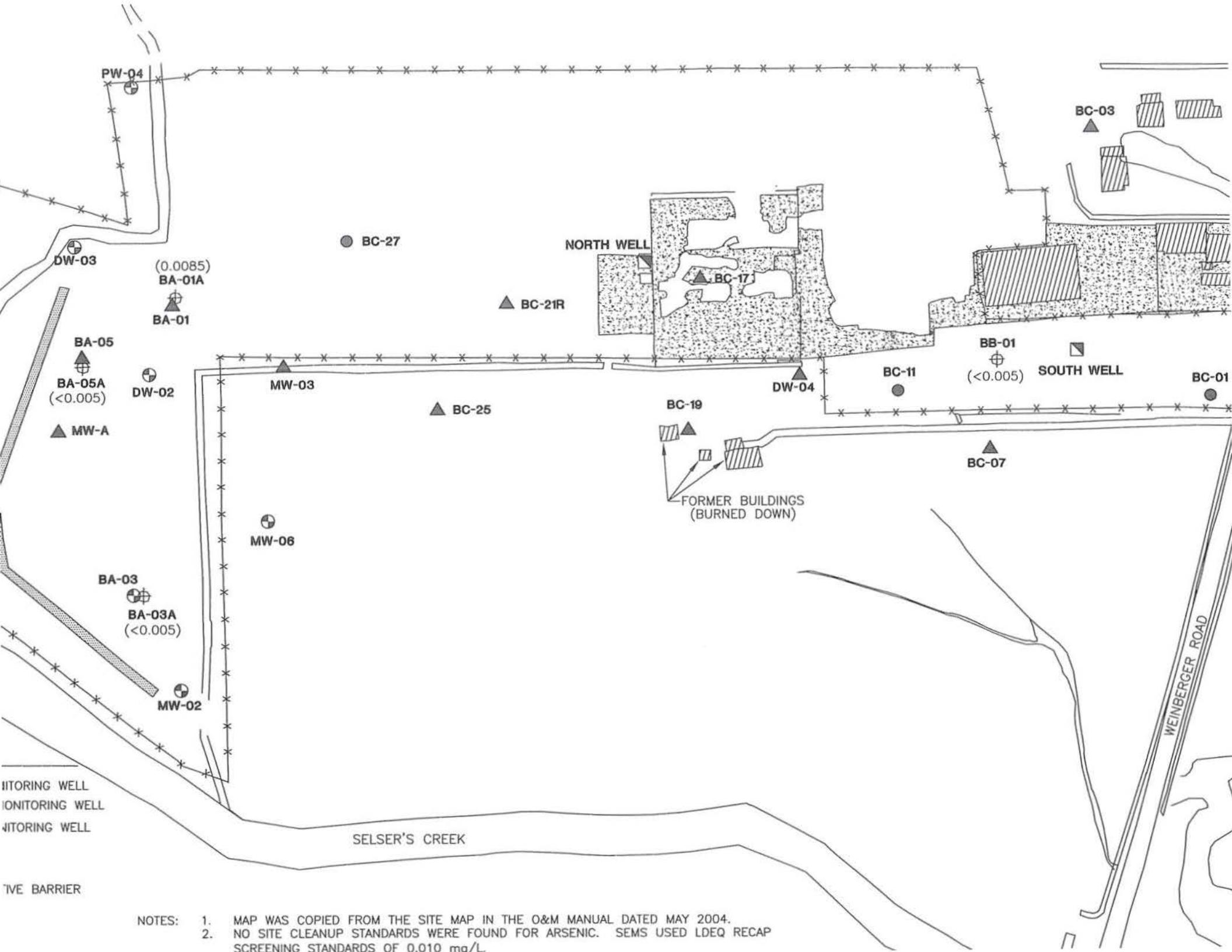


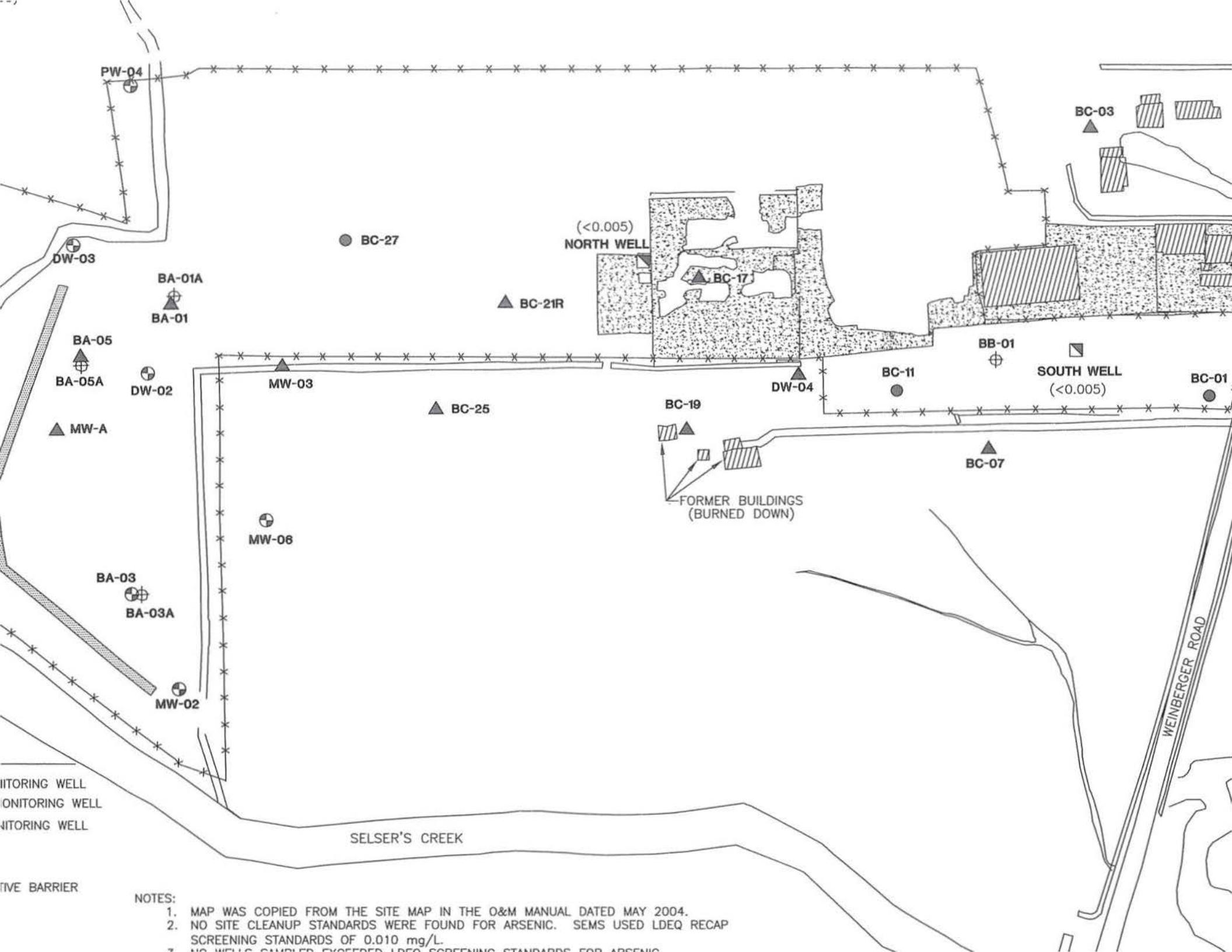


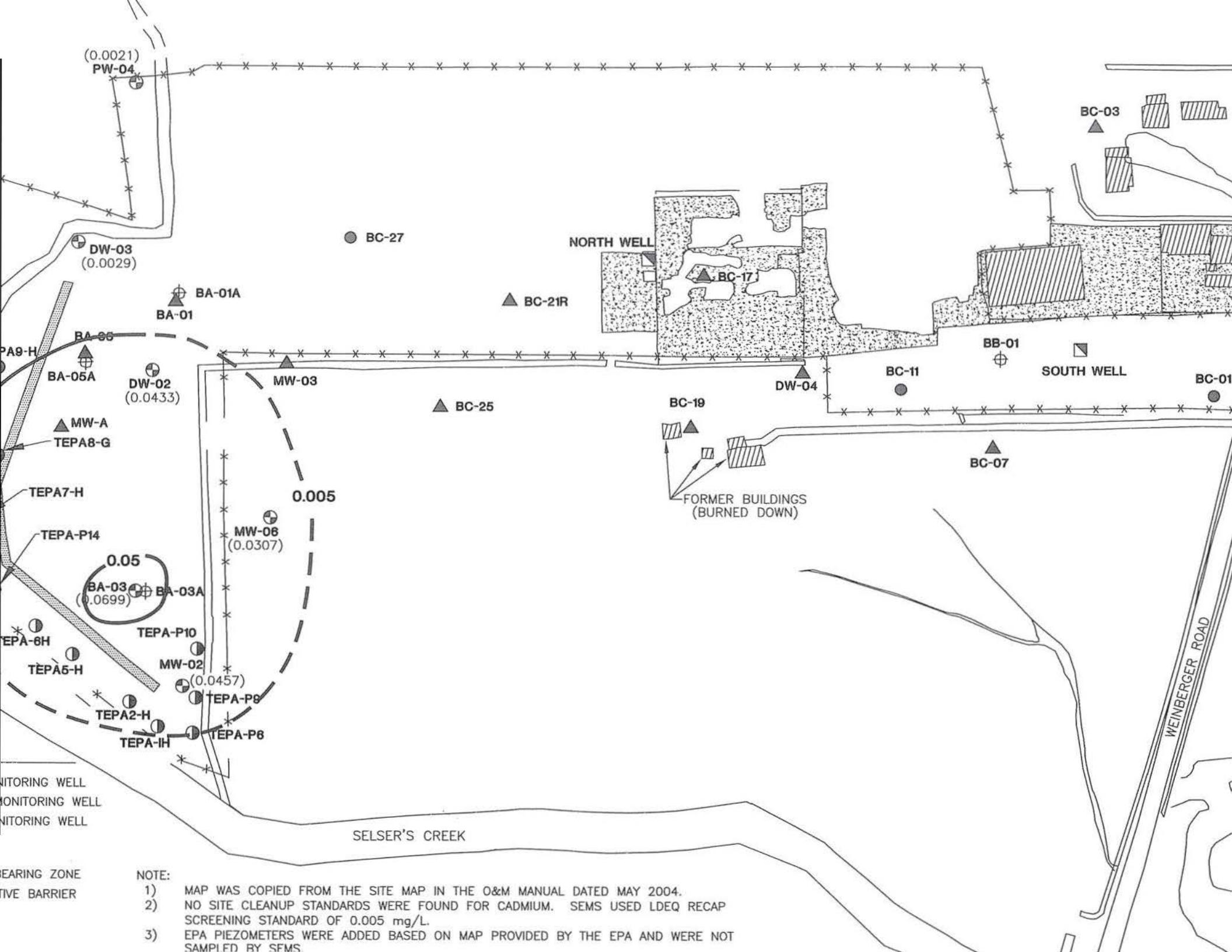






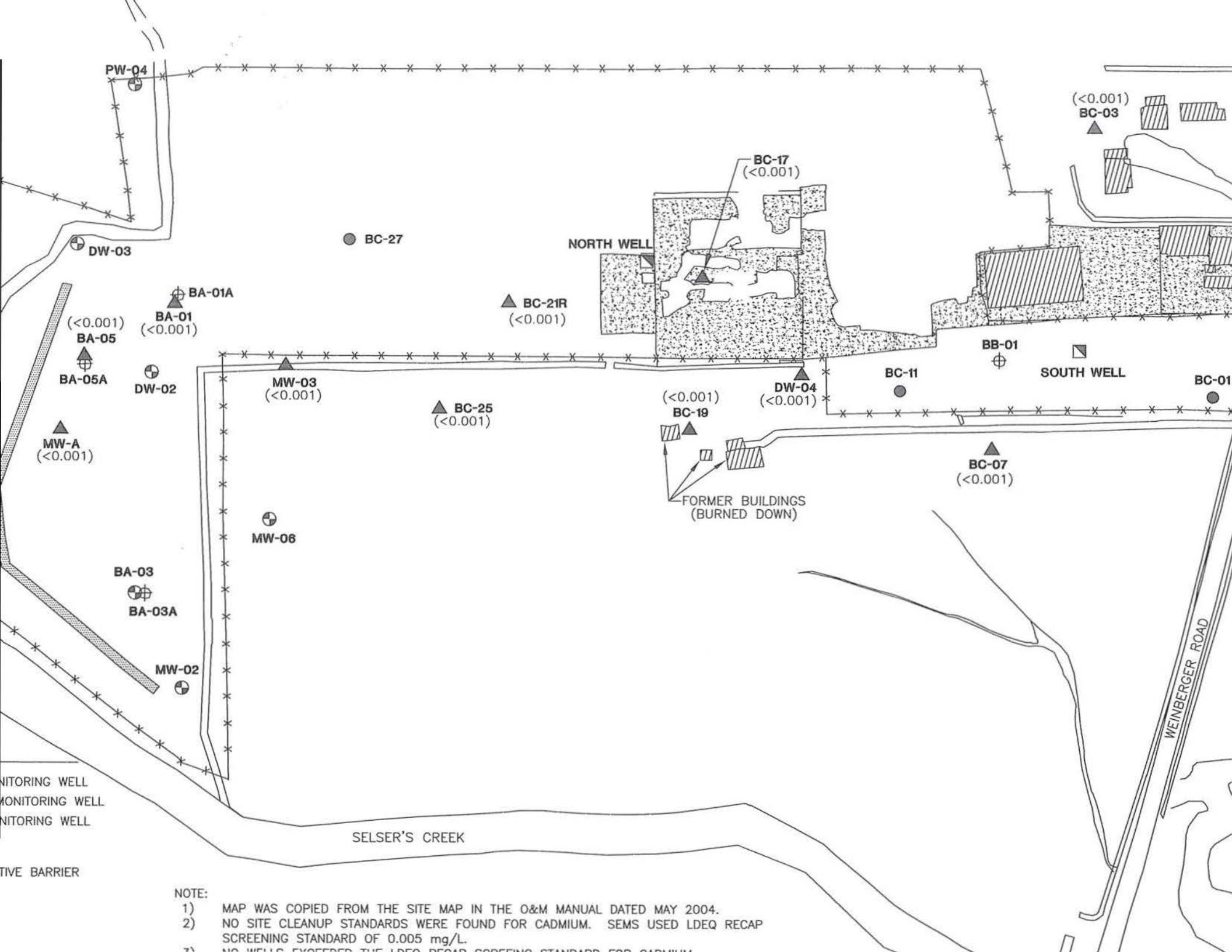


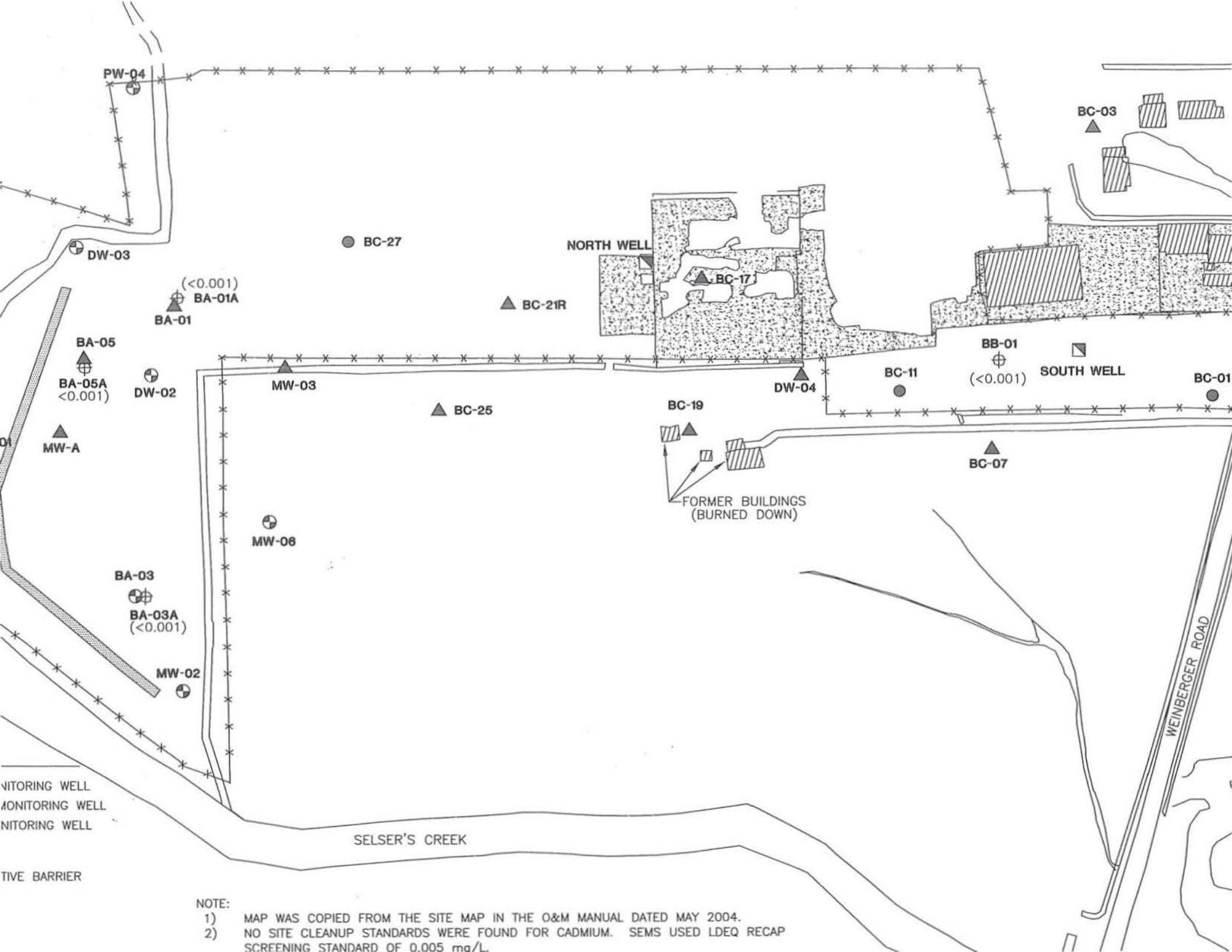




NOTE:

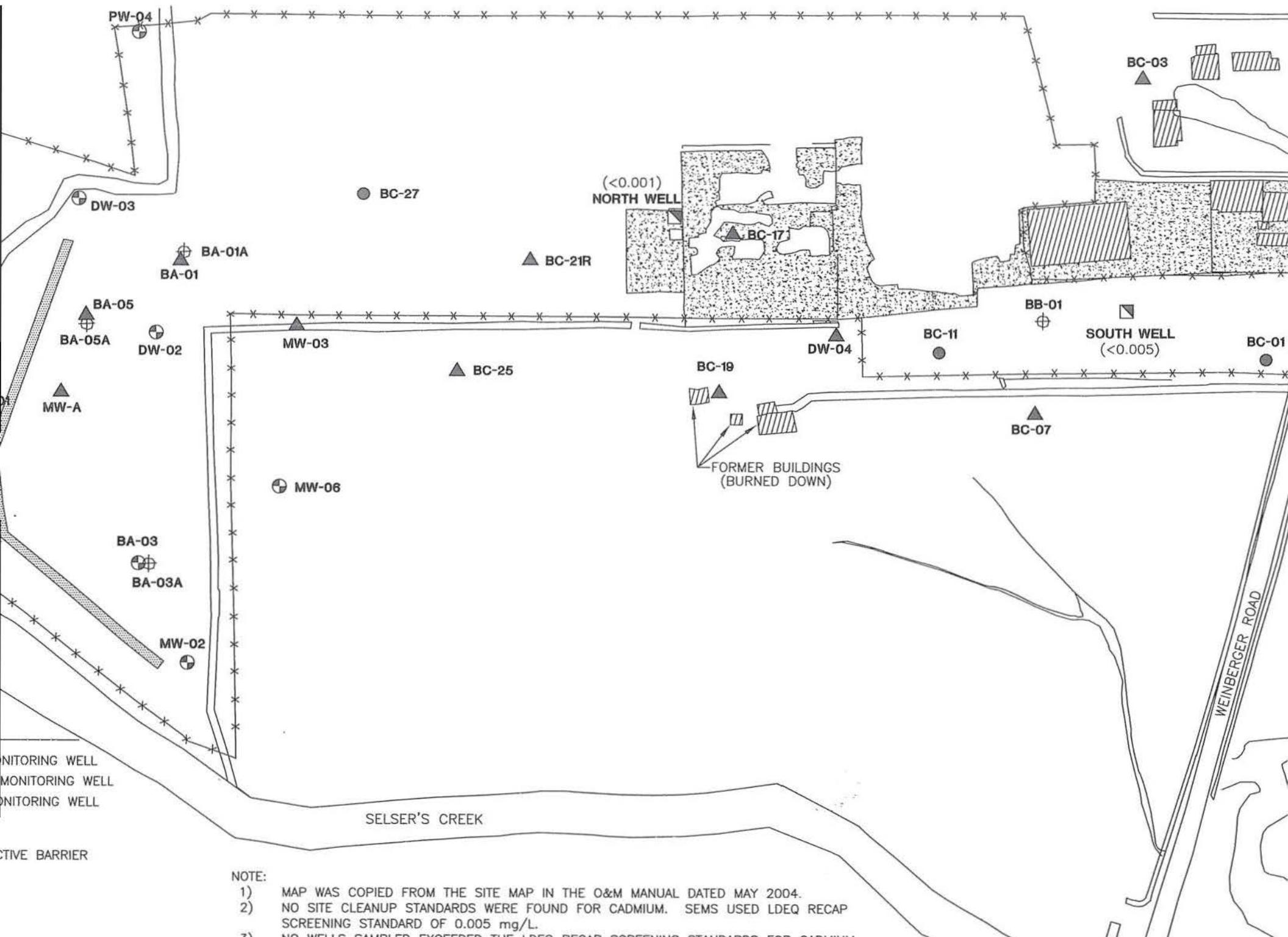
- 1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR CADMIUM. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.005 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS

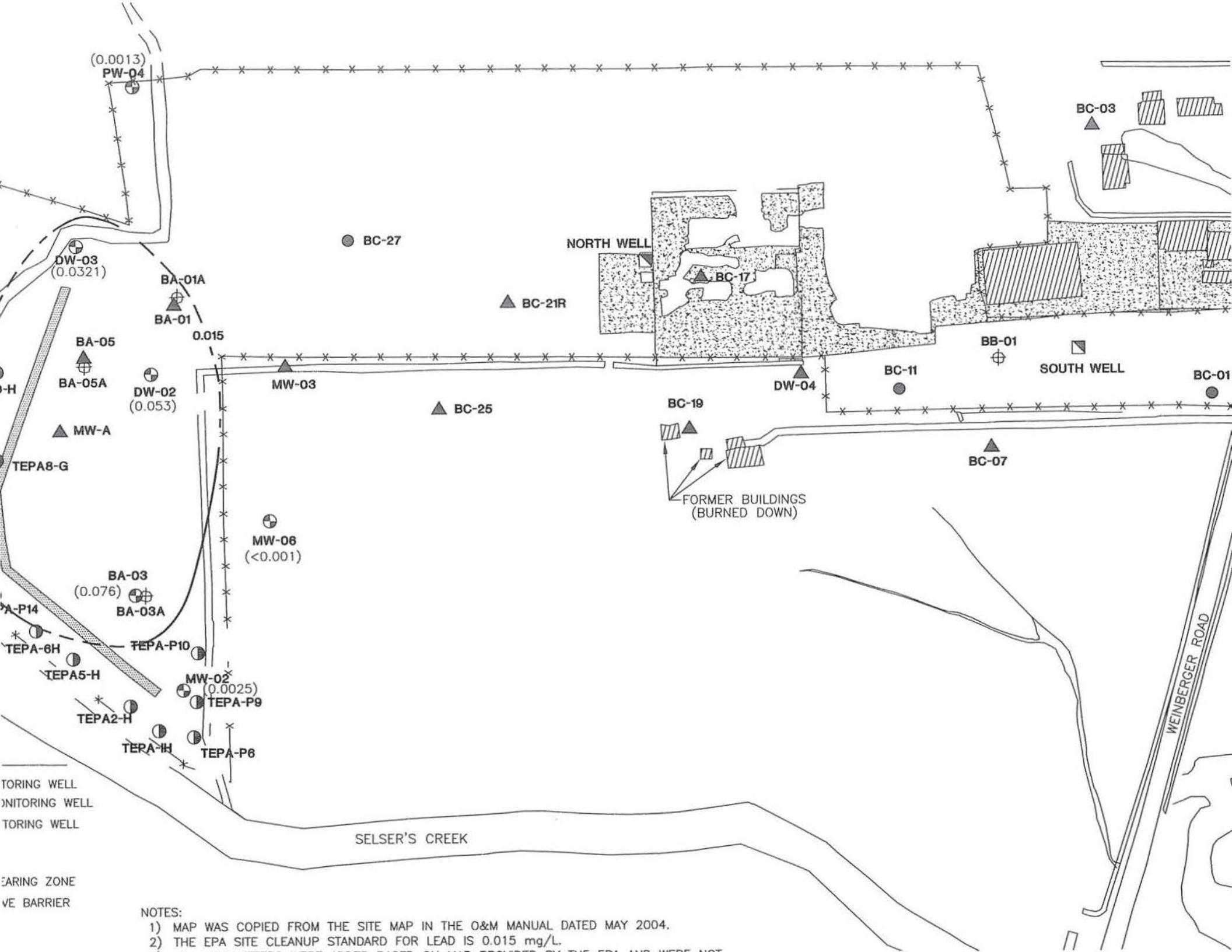


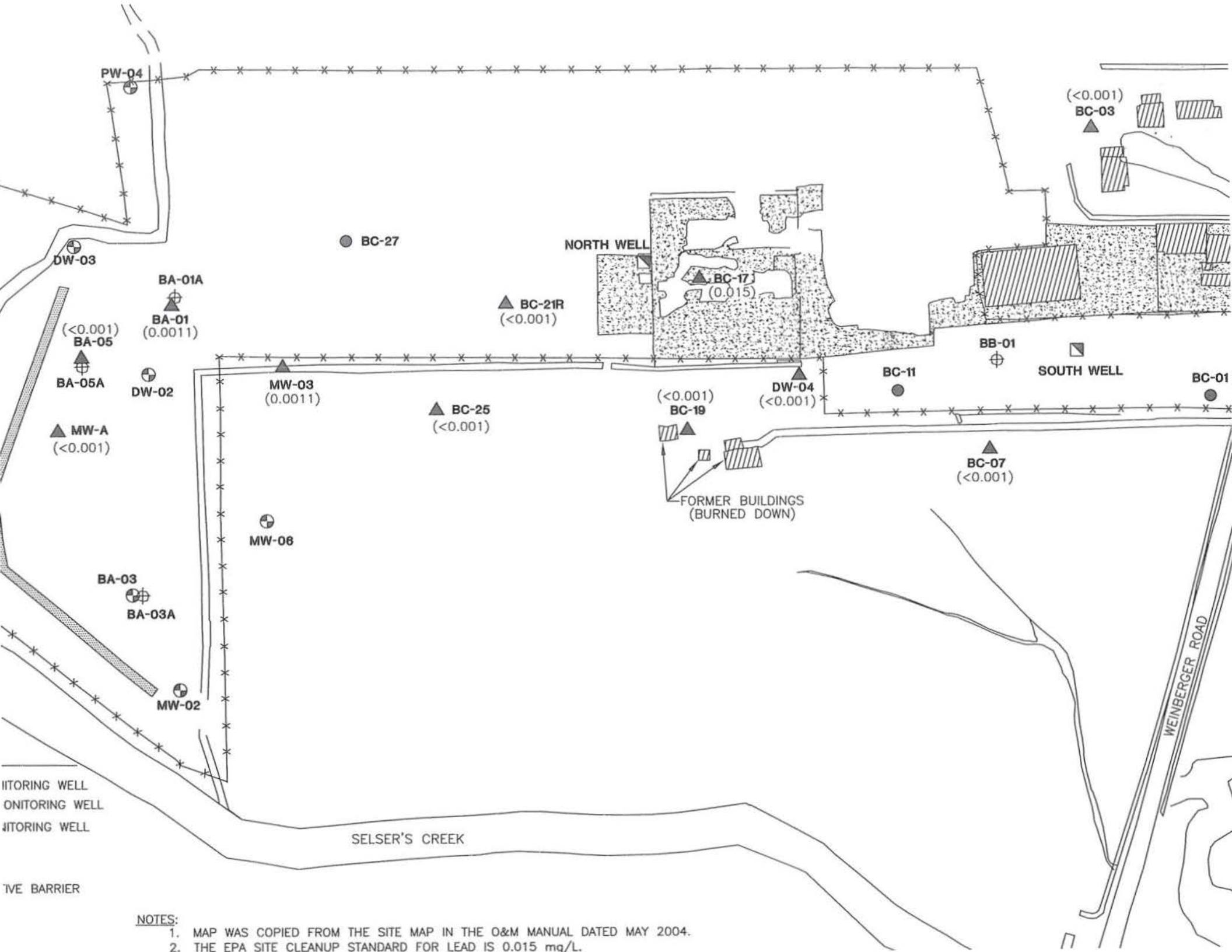


NOTE:

- 1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
- 2) NO SITE CLEANUP STANDARDS WERE FOUND FOR CADMIUM. SEMS USED LDEQ RECAP SCREENING STANDARD OF 0.005 mg/L.

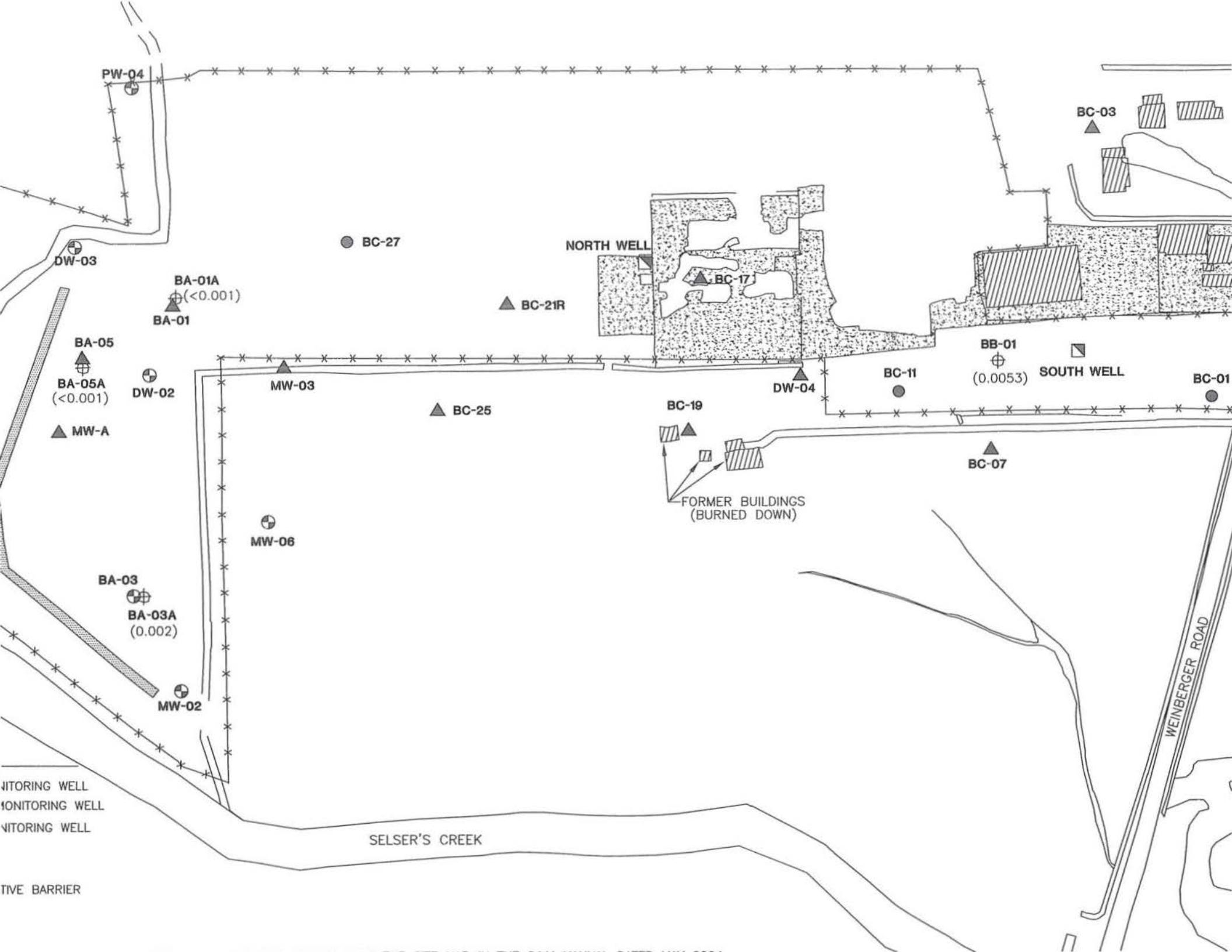


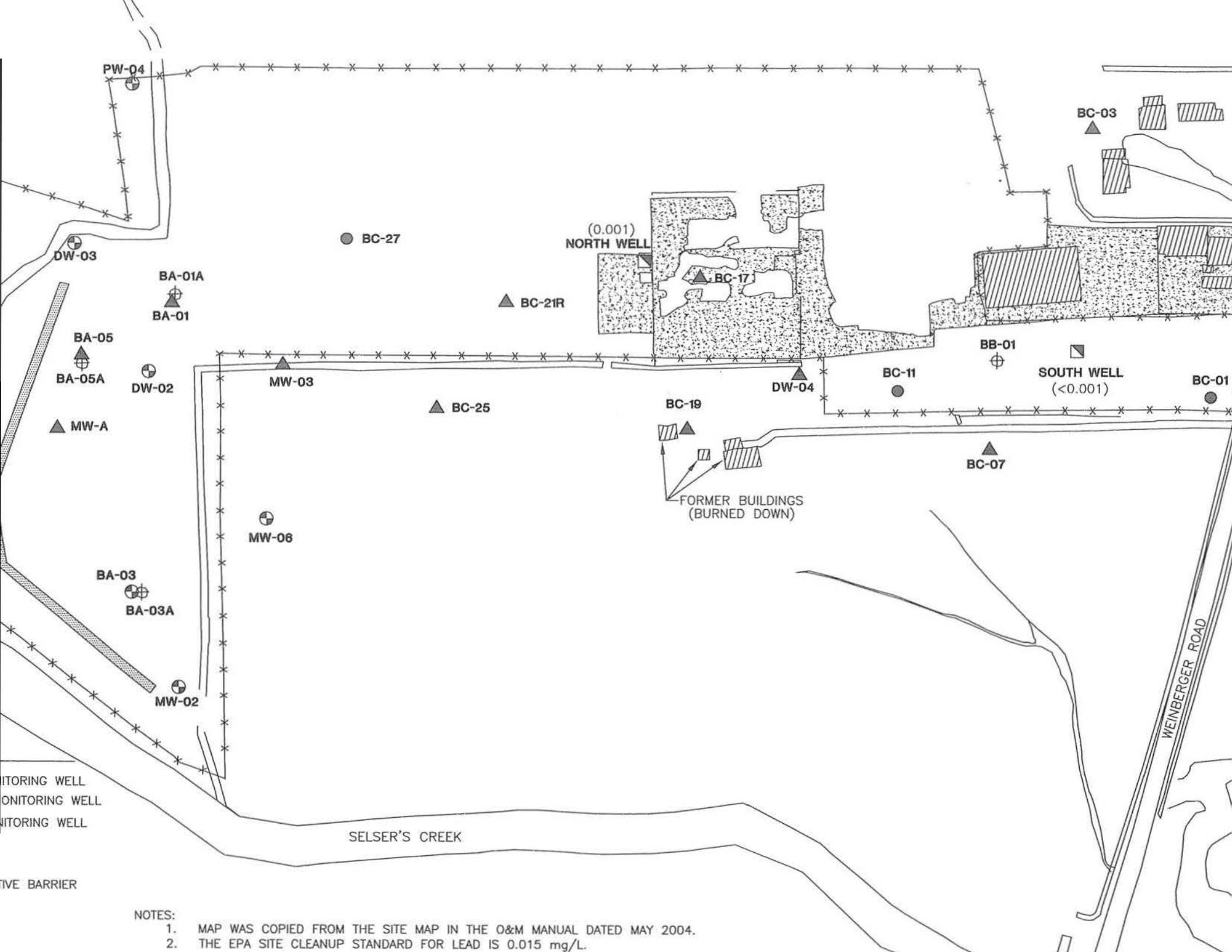




NOTES:

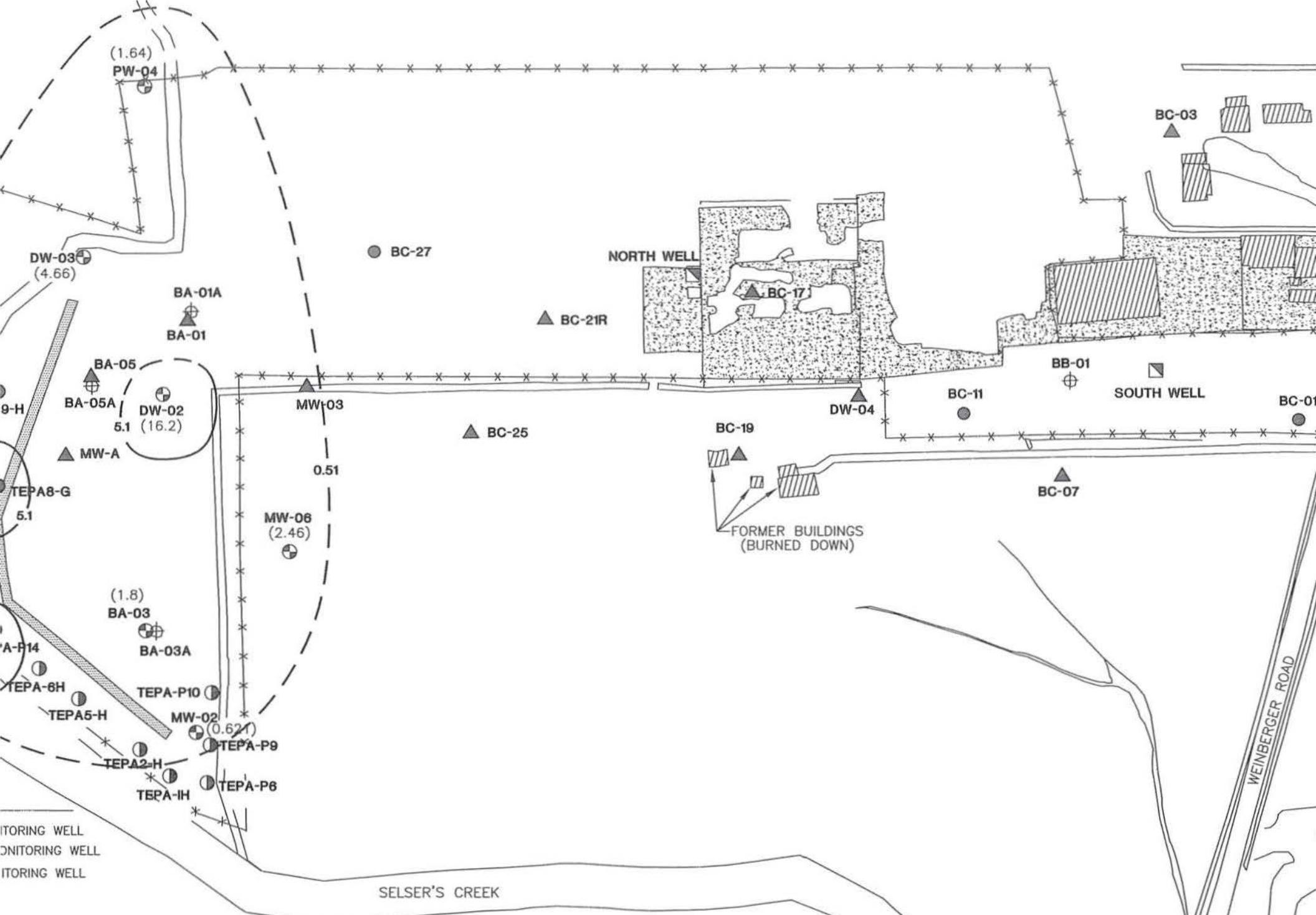
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
 2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.





NOTES:

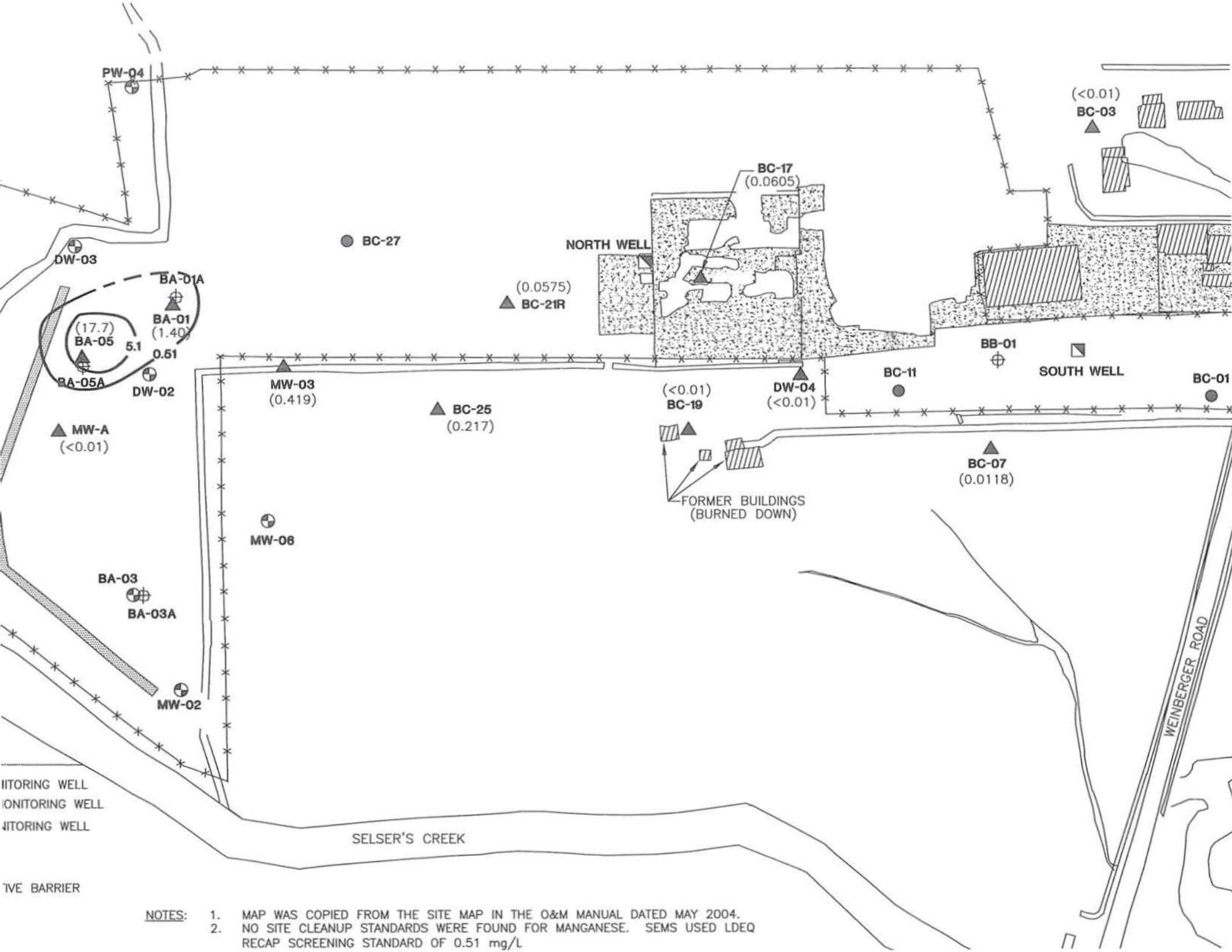
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.

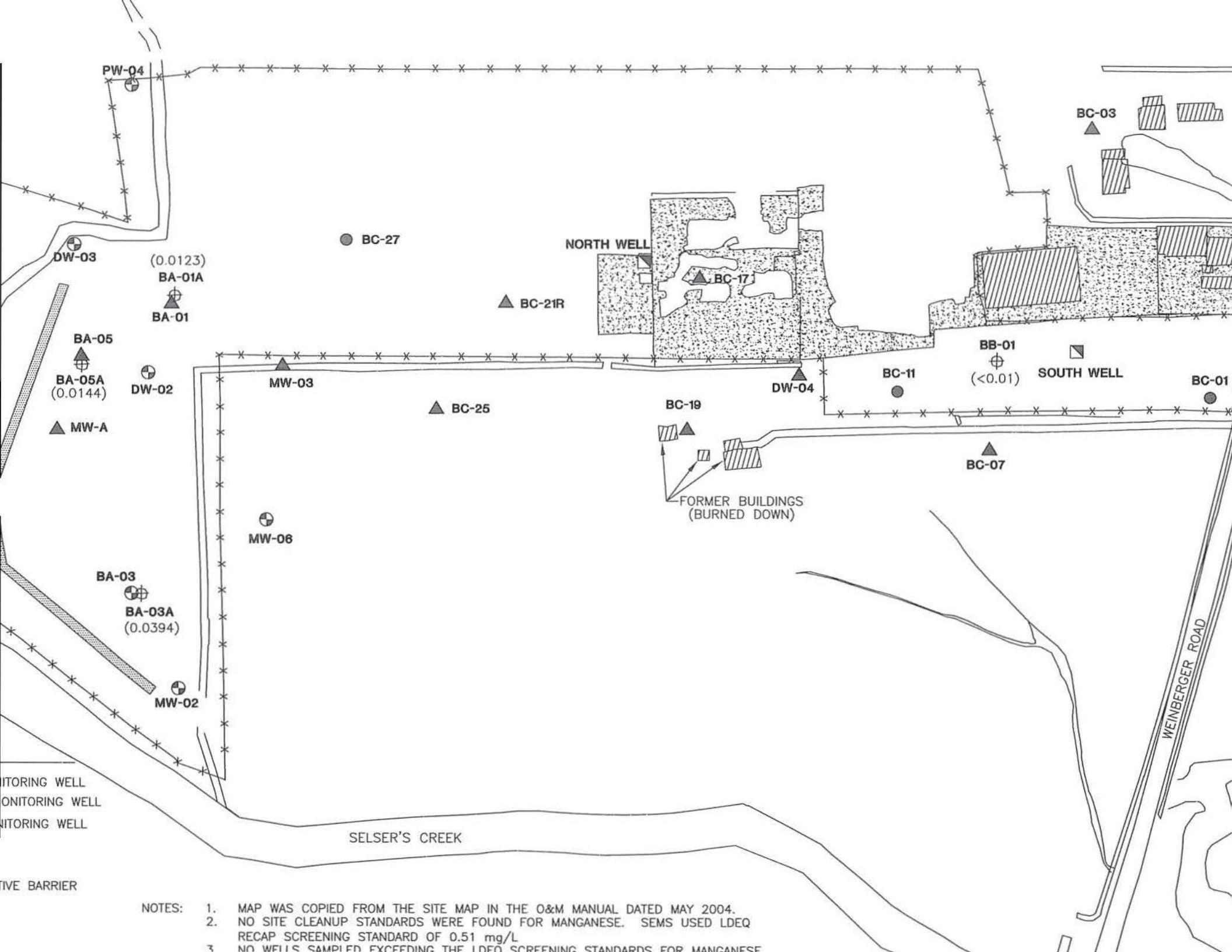


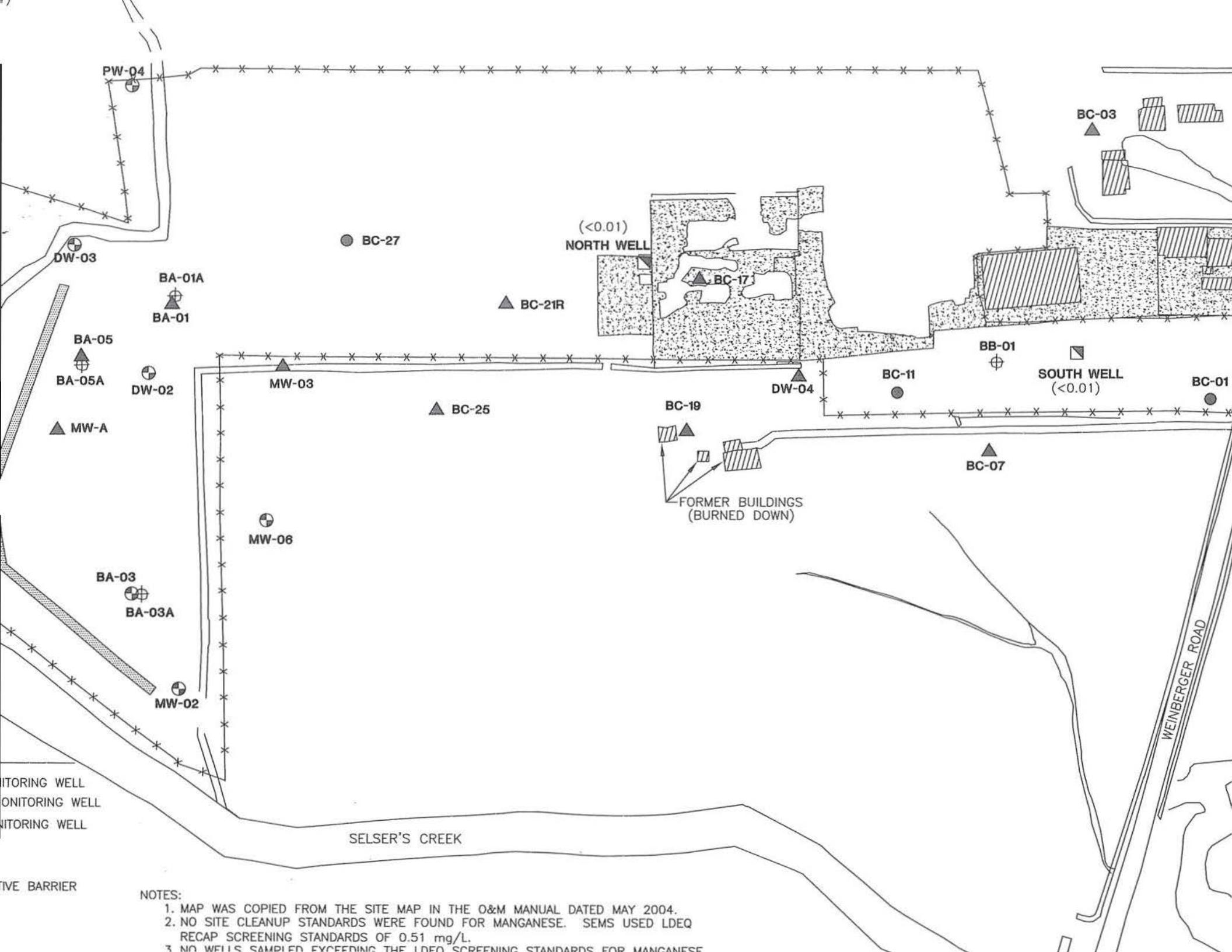
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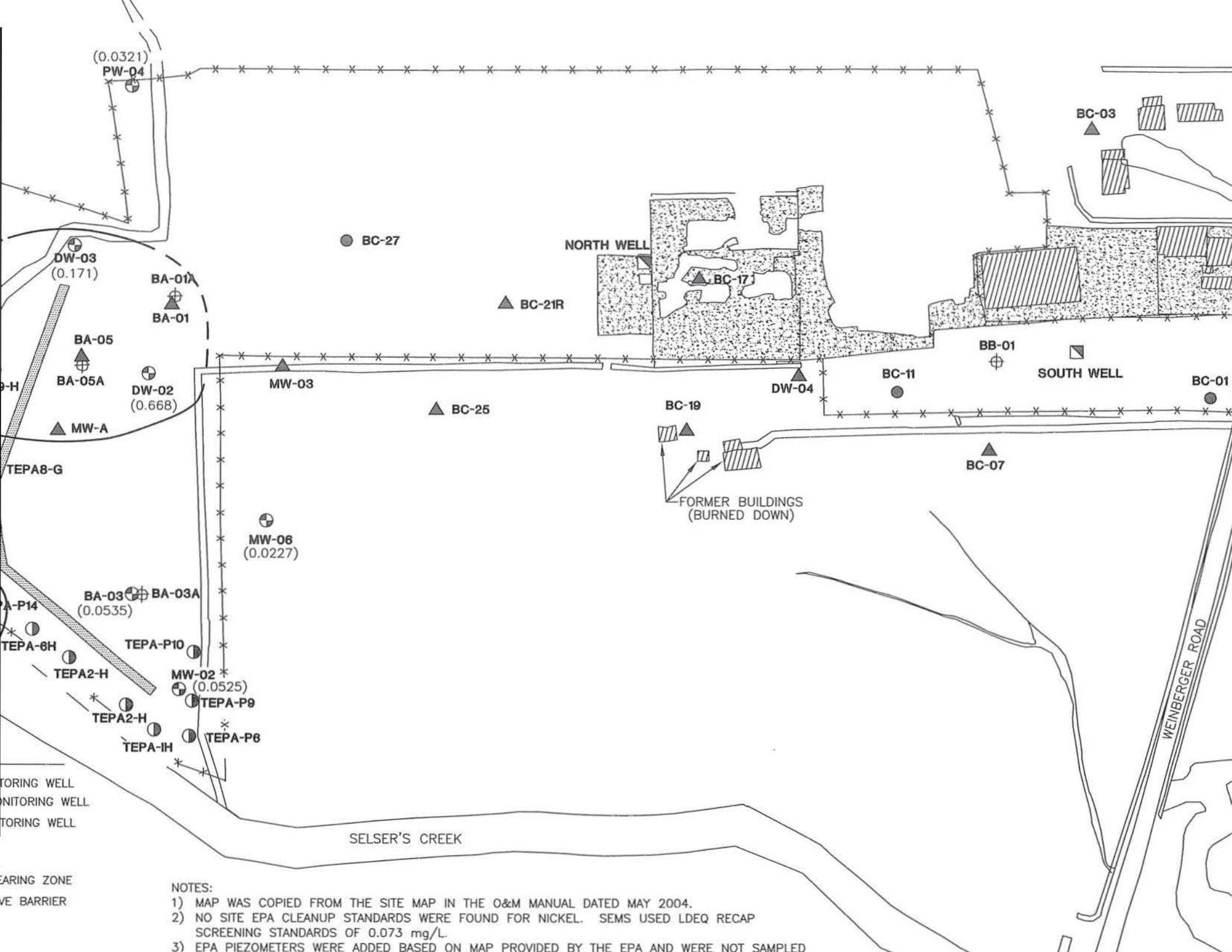
- NOTES:

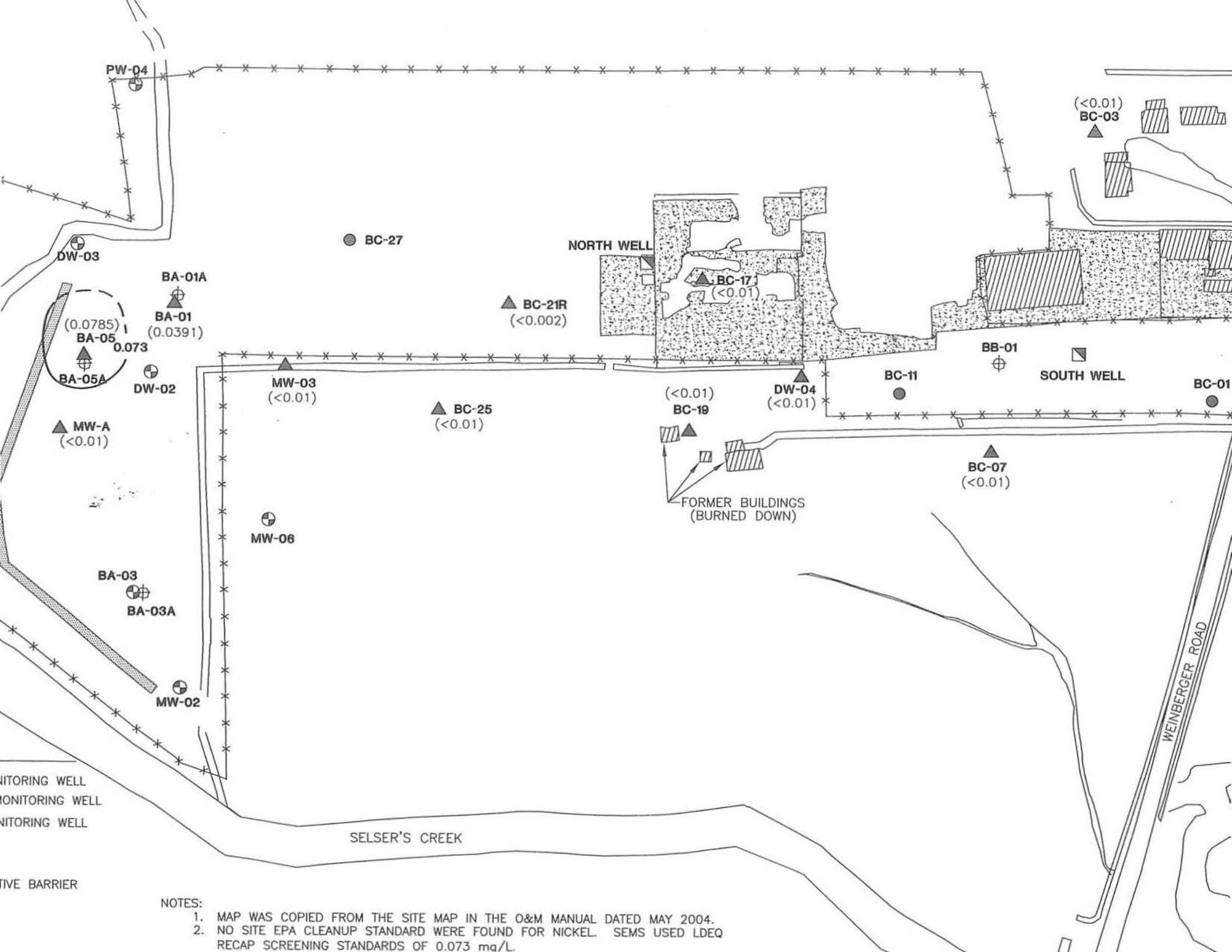
 - 1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
 - 2) NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.51 mg/L.
 - 3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED

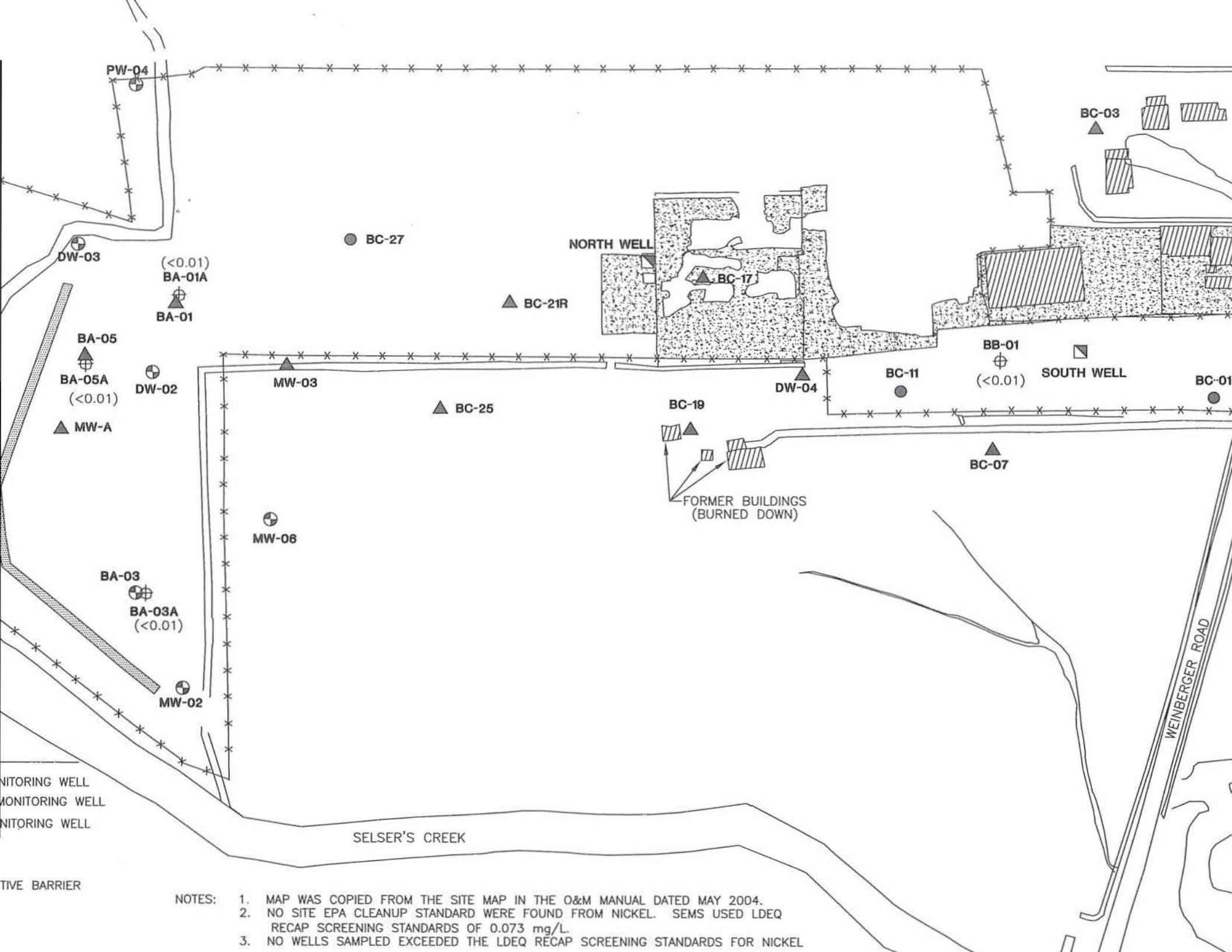


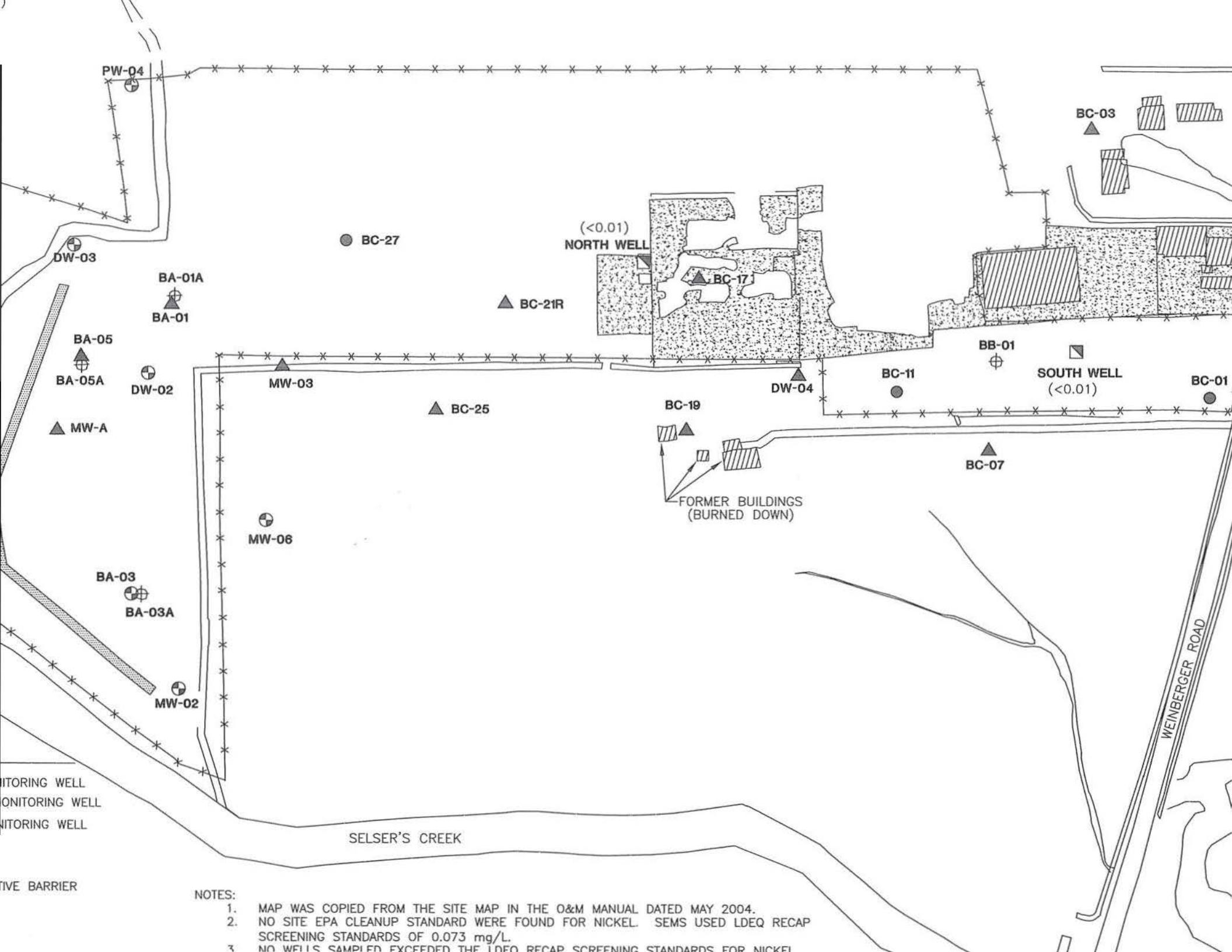


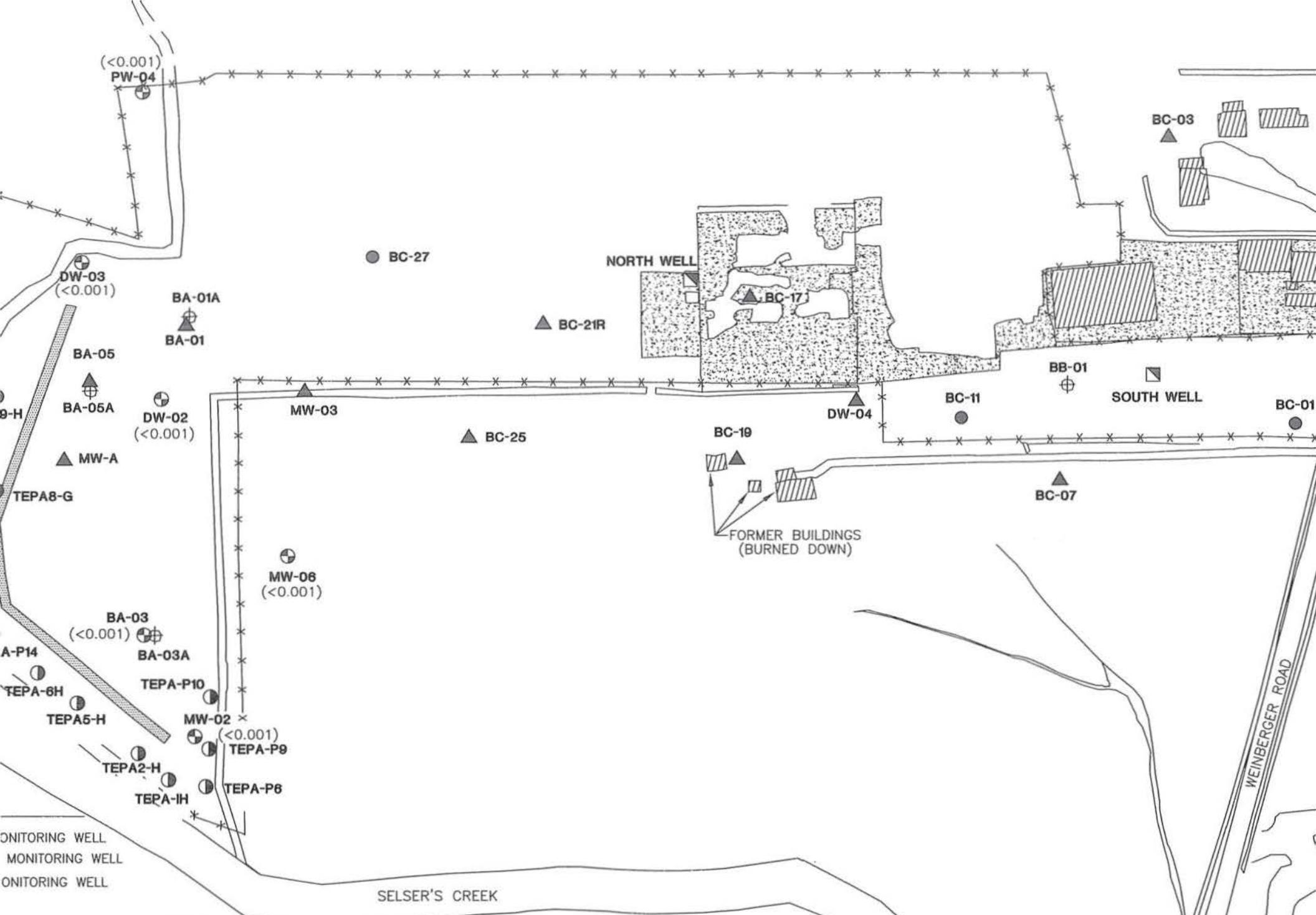










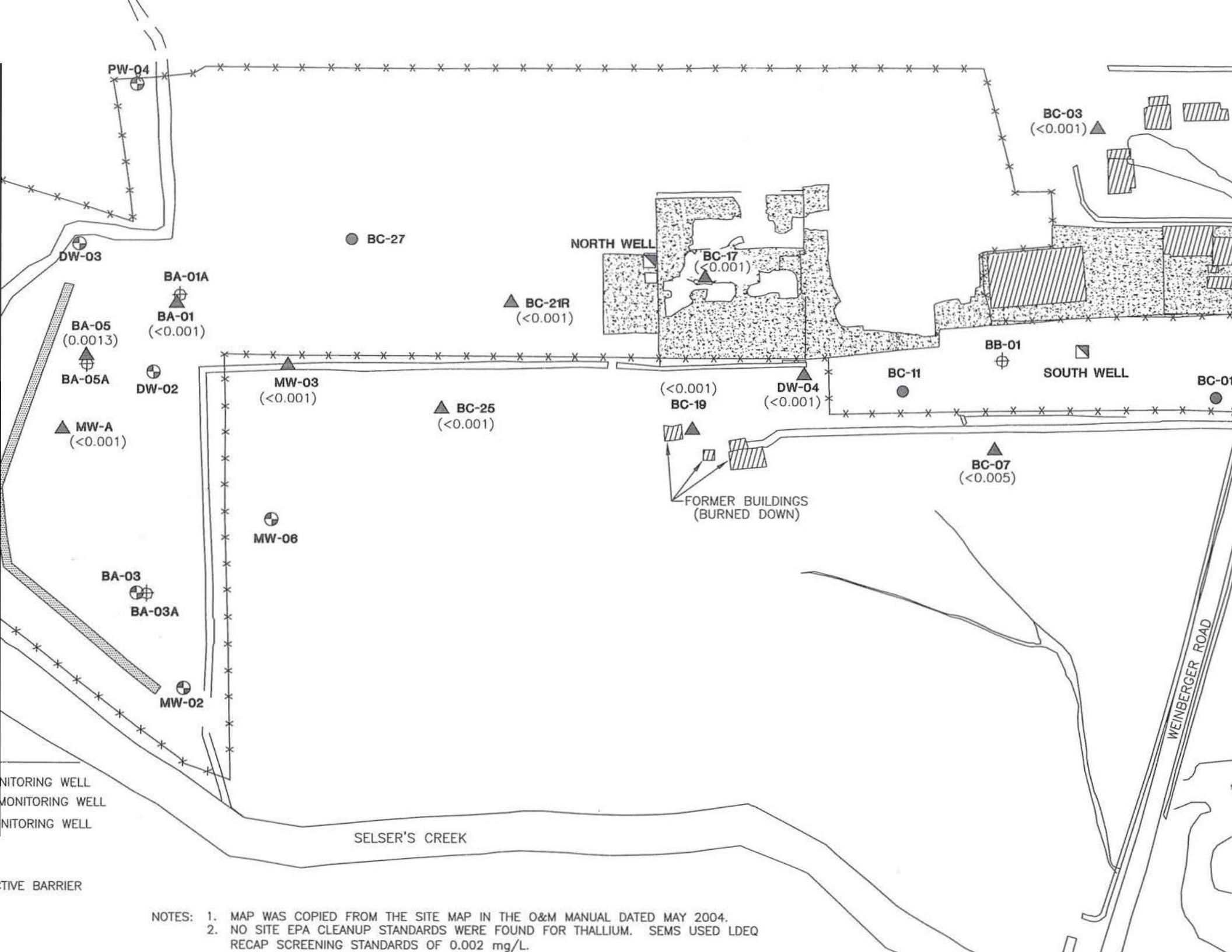


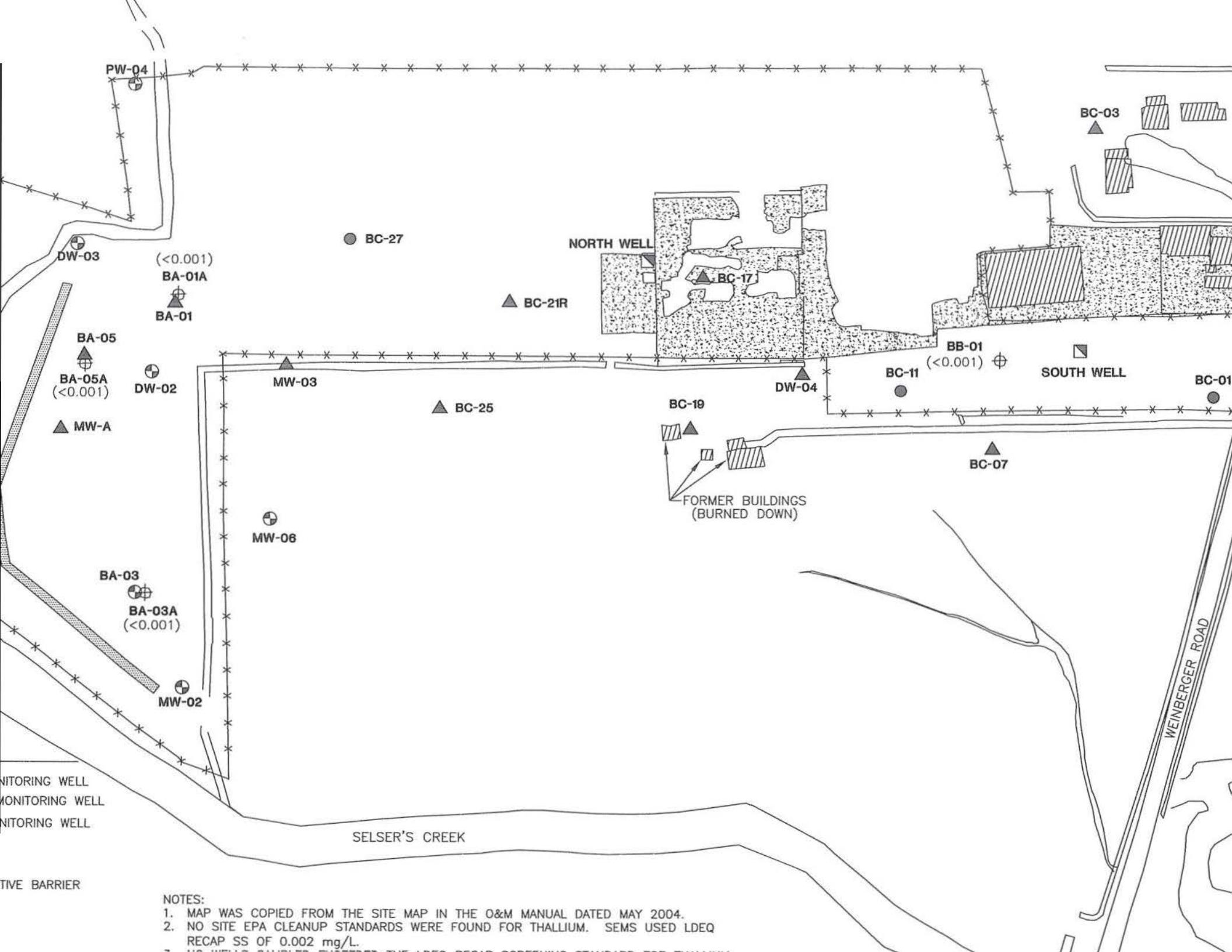
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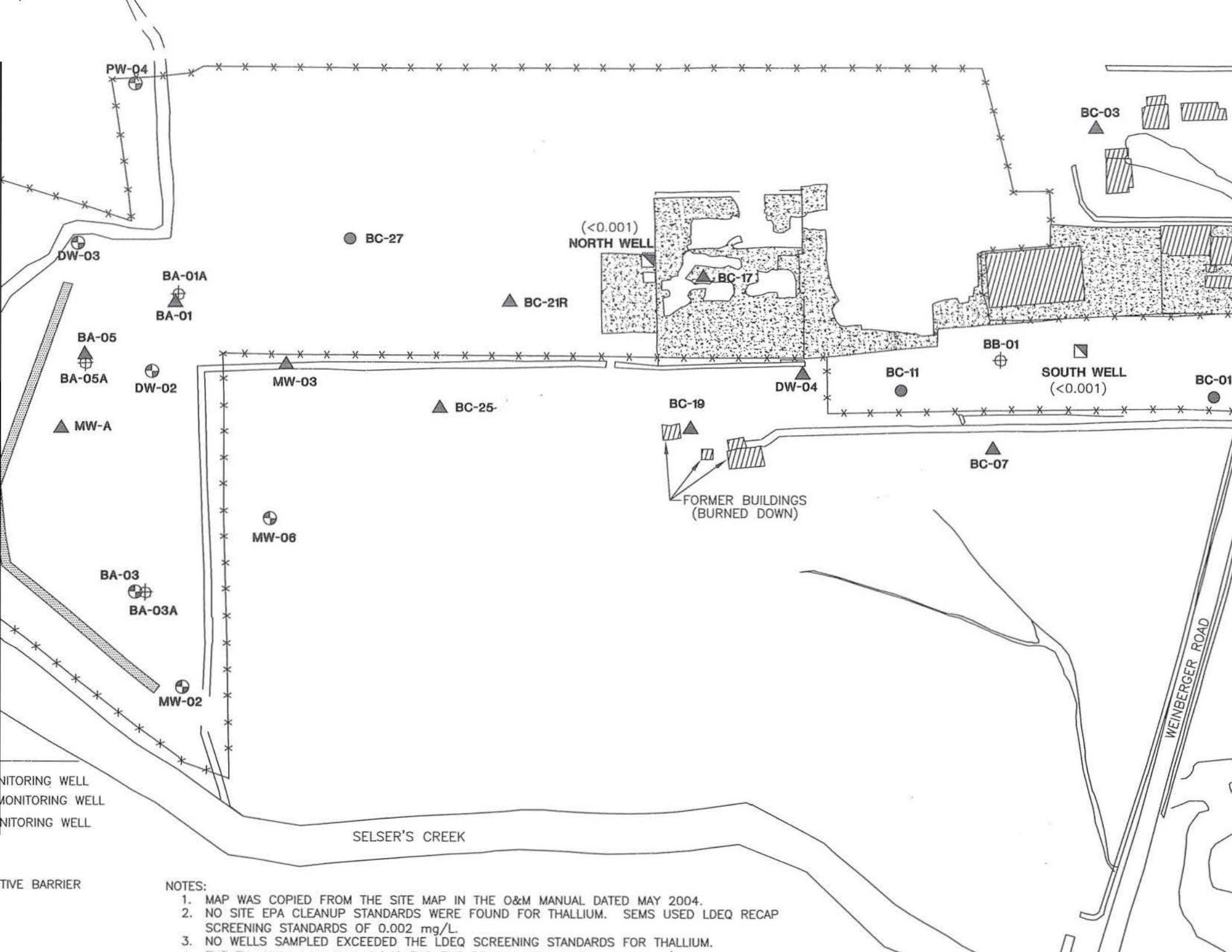
- NOTE:

 - 1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
 - 2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L.
 - 3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

4) NO UTM COORDINATES WERE FOUND IN THE LDEQ RECAP SCREENING STANDARD FOR THALLIUM.

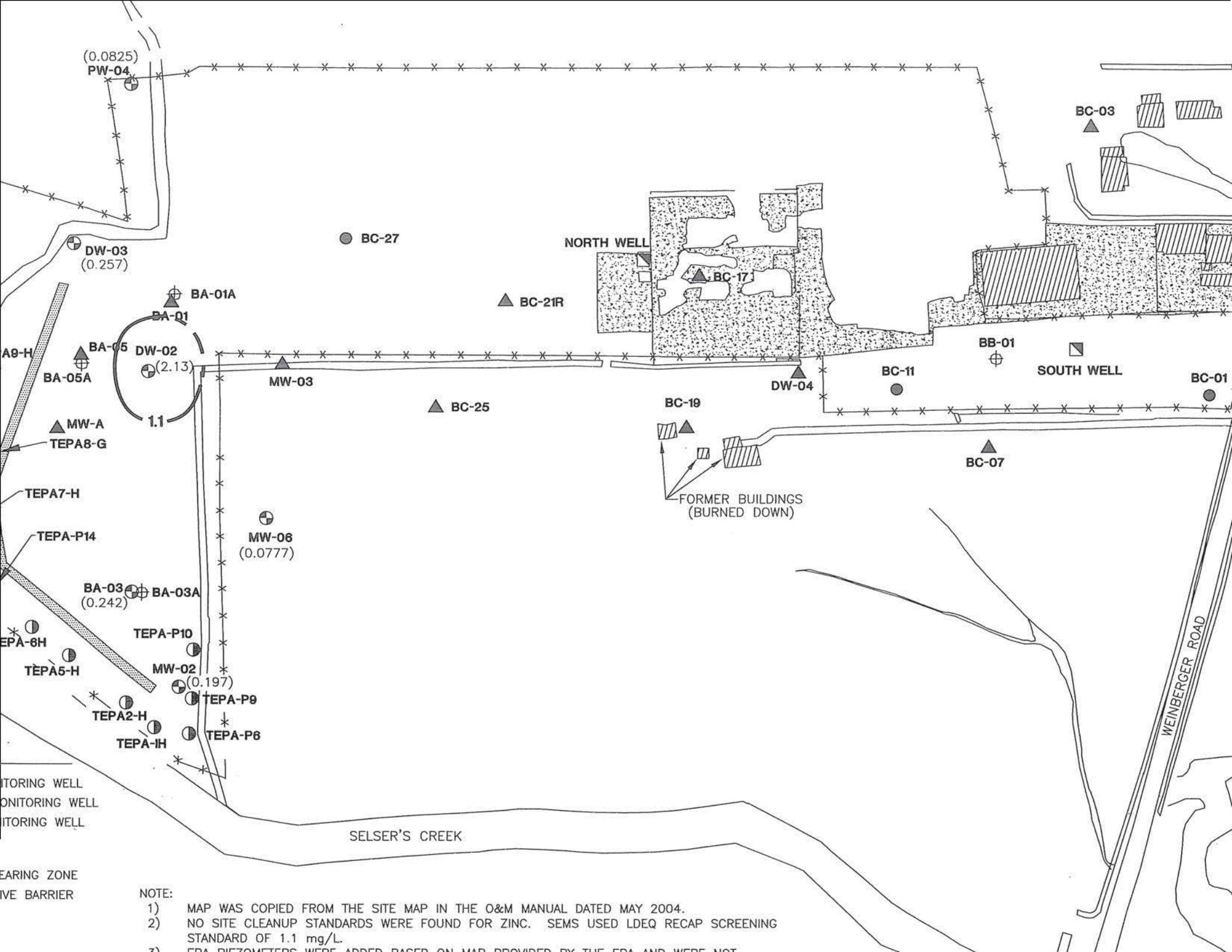


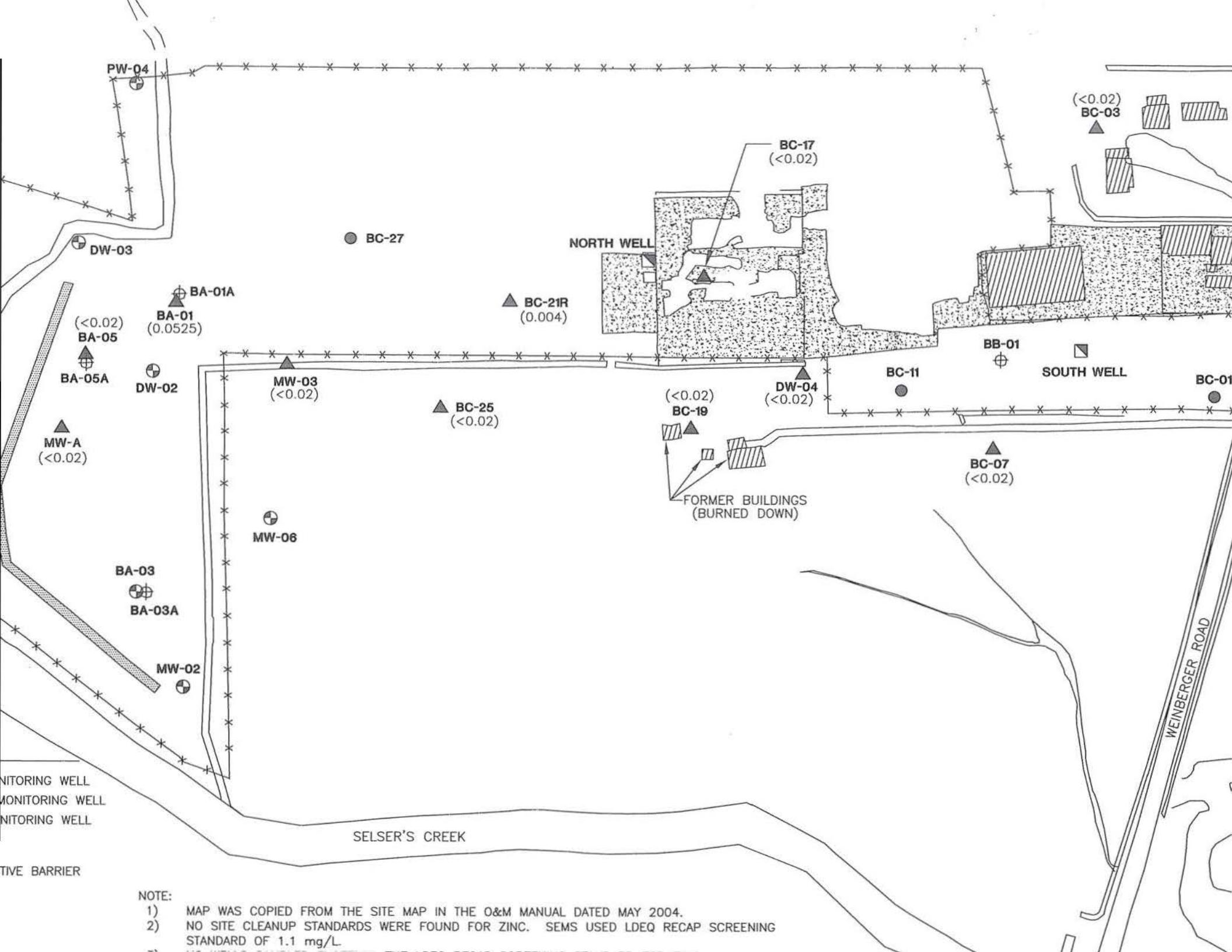


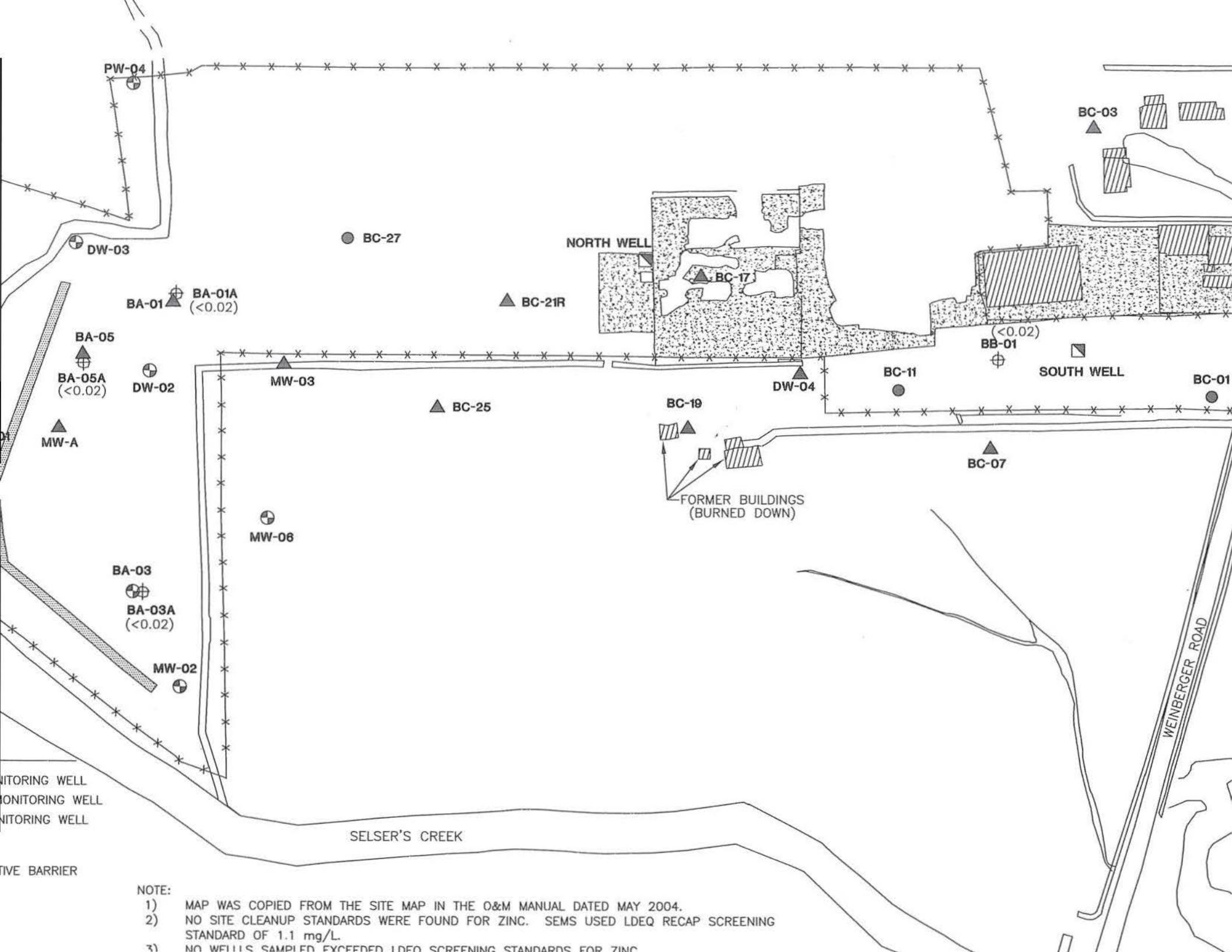


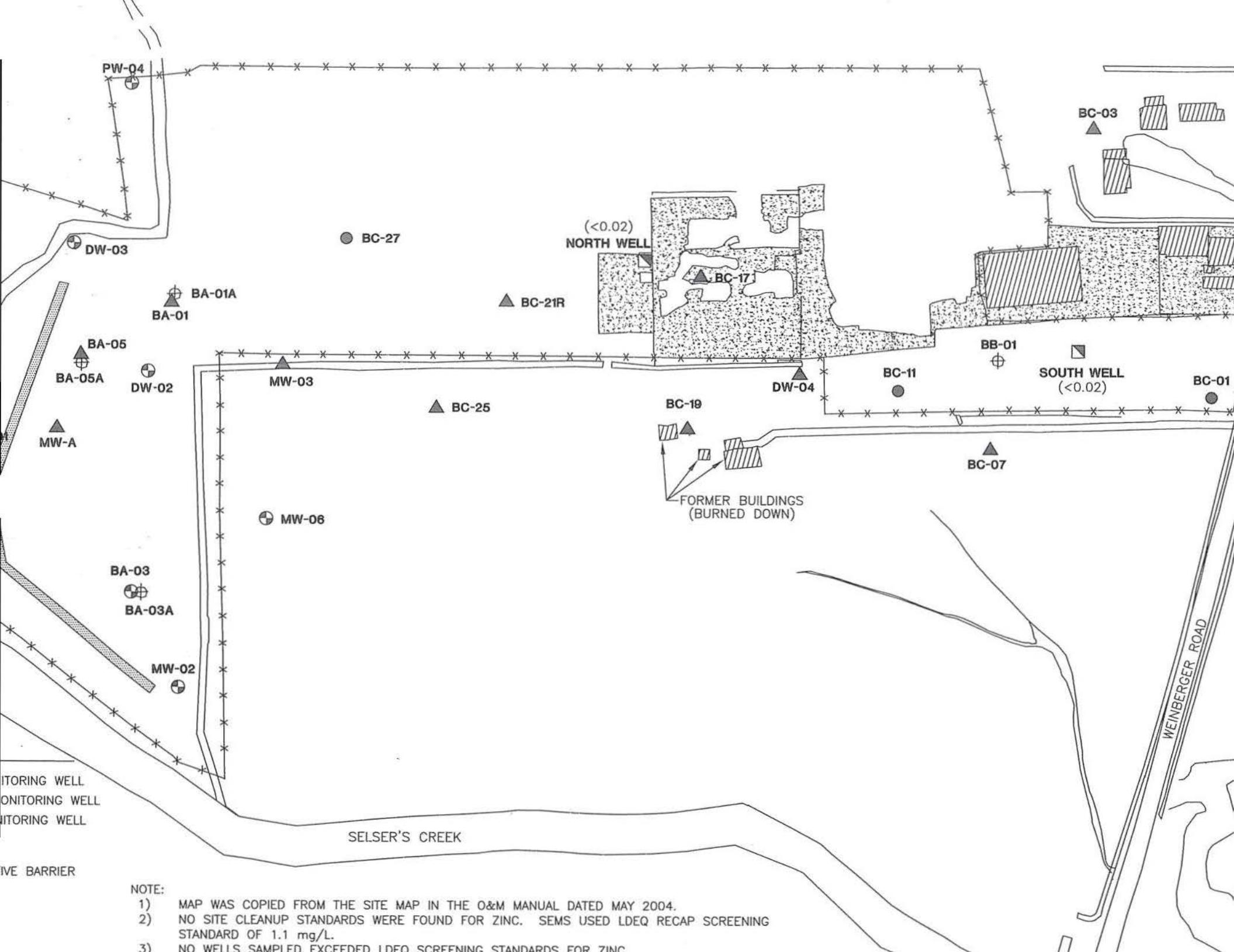
NOTES:

1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
 2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM. SEMS USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L.
 3. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.









ATTACHMENT A
FIELD DATA SHEETS & WASTE MANIFESTS

ATTE METALS SUPERFUND SITE OPERATION AND MAINTENANCE ACTIVITY LOG

PAGE 1 OF 2

PROJECT GENERAL INFORMATION

Client:	LDEQ	Date:	2-18-2013 to 2-21-2013
Facility #:	Delatte Metals Superfund Site	Activities	Notify facility of arrival. Inspect
Address:	Weinberger Road, Ponchatoula, LA	facility monitoring wells and PRB for integrity.	
Project #:	207-0016	Gauge, and sample appropriate wells.	

SEMS ACTIVITY DOCUMENTATION (Continued On Back)

Time (Military)	Notes & Observations
Arrived: (✓ 2:45)	<p>Notified facility personnel of arrival : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Have H&S plan : <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Potentiometric data collection procedures: Locate monitoring wells, open to allow for water level equilibration, inspect/document well integrity, measure total well depth, measure depth-to-water (to 0.00'). Measure wells from least contaminated to most contaminated.</p> <p>Well purging procedures: Use low flow micro purge methods and monitor water quality characteristics. When water quality characteristics stabilize record characteristics and collect sample. Transport purge water to on-site 55-gallon drums for containment and disposal.</p> <p>Groundwater sample collection procedures: Collect samples with dedicated well equipment by low flow micro purge methods after water quality characteristics have stabilized. Transfer samples to a proper container (on ice) for transport to the designated lab for analyses. Ship samples for overnight delivery, with completed chain-of-custody documentation. Sample wells in the same order as they were purged.</p>
Departed: (✓ 5:45)	

SEMS EQUIPMENT & MATERIALS USED

Task	Description	Accounting Code	Unit	Quantity
005	Operation, maintenance and related activities per well.		well	
0006	Return to grade area of PRB		yards	—
0007	Well labels		each	1
0008	Well Locks		each	4
0009	Concrete Pad		each	—
00010	Well cover		each	—

SEMS PERSONNEL INFORMATION

Employee Name: Nick Rockhorst

Employee Signature:

SEMS, Inc.

DELATTE METALS SUPERFUND SITE OPERATION AND MAINTENANCE ACTIVITY LOG

PAGE 2 OF 2

SEMS EQUIPMENT & MATERIALS USED

Employee Name:

Nick Rockhors

Employee Signature:

Mark SEMS, Inc.

TAILGATE SAFETY MEETING

GENERAL INFORMATION			
Company	SEMS, INC		
Date	2-18-2013	Time	Job Number
Customer	LDEQ	Address	Weinberger Rd, Ponchatoula, LA
Job Location	Ponchatoula, LA		
Type of Work	Groundwater Sampling		
Protective Clothing/Equipment	Level D (gloves, long pants, safety boots)		

SAFETY TOPICS			
Chemical Hazards	Metals and Low pH (acidic groundwater)		
Physical Hazards	Heat, bees/hornets, snakes, blades		
Emergency Procedures	First Aid, Call 911 and proceed to hospital. Meet at front entrance if problems occur.		
Hospital/Clinic	North Oaks Hospital	Phone	(985) 345-2700
Hospital Address	15790 Paul Vega Dr. Hammond, LA		
Special Equipment	Level D		
Other			

ATTENDEES	
NAME PRINTED	SIGNATURE
<u>L. Max</u>	<u>L. Max</u>
<hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/>
SITE SUPERVISOR	SIGNATURE
<u>Nick Rockhorst</u>	<u>M. Mont</u>
<hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/>

TAILGATE SAFETY MEETING

GENERAL INFORMATION			
Company	SEMS, INC		
Date	2-19-2018	Time	0100
Customer	LDEQ	Address	Weinberger Rd, Ponchatoula, LA
Job Location	Ponchatoula, LA		
Type of Work	Groundwater Sampling		
Protective Clothing/Equipment	Level D (gloves, long pants, safety boots)		

SAFETY TOPICS			
Chemical Hazards	<u>Metals and Low pH (acidic groundwater)</u>		
Physical Hazards	<u>Heat, bees/hornets, snakes, blades</u>		
Emergency Procedures	<u>First Aid, Call 911 and proceed to hospital. Meet at front entrance if problems occur.</u>		
Hospital/Clinic	<u>North Oaks Hospital</u>	Phone	<u>(985) 345-2700</u>
Hospital Address	<u>15790 Paul Vega Dr. Hammond, LA</u>		
Special Equipment	<u>Level D</u>		
Other			

ATTENDEES	
NAME PRINTED <u>Maghie Shaw</u>	SIGNATURE <u>Maghie J.</u>
NICK RODCHENKO SITE SUPERVISOR	SIGNATURE <u>Nick Rodchenko</u>

TAILGATE SAFETY MEETING

GENERAL INFORMATION

Company SEMS, INC
Date 2.20.2013 Time 0800 Job Number 207-0016
Customer LDEQ Address Weinberger Rd, Ponchatoula, LA
Job Location Ponchatoula, LA
Type of Work Groundwater Sampling
Protective Clothing/Equipment Level D (gloves, long pants, safety boots)

SAFETY TOPICS

Chemical Hazards Metals and Low pH (acidic groundwater)
Physical Hazards Heat, bees/hornets, snakes, blades
Emergency Procedures First Aid, Call 911 and proceed to hospital. Meet at front entrance if problems occur.

Hospital/Clinic North Oaks Hospital Phone (985) 345-2700

Hospital Address 15790 Paul Vega Dr. Hammond, LA

Special Equipment Level D

Other _____

ATTENDEES

NAME PRINTED

Maghee Shaw

SIGNATURE

Mghee J

Nick Rodehorst
SITE SUPERVISOR

Armand M
SIGNATURE

TAILGATE SAFETY MEETING

GENERAL INFORMATION					
Company	SEMS, INC				
Date	2/21/2013	Time	0800	Job Number	207-0016
Customer	LDEQ	Address	Weinberger Rd, Ponchatoula, LA		
Job Location	Ponchatoula, LA				
Type of Work	Groundwater Sampling				
Protective Clothing/Equipment	Level D (gloves, long pants, safety boots)				

SAFETY TOPICS					
Chemical Hazards	Metals and Low pH (acidic groundwater)				
Physical Hazards	Heat, bees/hornets, snakes, blades				
Emergency Procedures	First Aid, Call 911 and proceed to hospital. Meet at front entrance if problems occur.				
Hospital/Clinic	North Oaks Hospital		Phone	(985) 345-2700	
Hospital Address	15790 Paul Vega Dr. Hammond, LA				
Special Equipment	Level D				
Other					

ATTENDEES					
NAME PRINTED	<u>Maghee Shaw</u>		SIGNATURE	<u>Maghee J</u>	
NAME PRINTED	<u>Nick Rockhorst</u>		SIGNATURE	<u>N. Rockhorst</u>	
SITE SUPERVISOR					

Delatte Metals O&M QA/QC Checklist

Page 1 of 1

SEMS Project #:

207-0016

Field Crew:

Maghee Shaw

NICK RIZZO HEST

Lanc matrix

MS/MSD (Every 20 Samples)

Field Duplicate (Every 10 Samples)

Delatte Metals O&M PRB Inspection Checklist

Page 1 of 1

SEMS Project #: 207-0016

Field Crew:

Maggie Shaw
NICK RODD HORNST
LANCE MEAUX

Date Inspected

2/20/13

Is the soil overlying the PRB cracked, eroded, or show any other pathways that could allow for surface water to enter the subsurface?

PRB Cleared	Yes
PRB Accessible	Yes
PRB Cracks Identified	No
PRB Erosion Identified	No
Photos Taken	No

NOTES:

NO AREAS REQUIRE FILL AT THIS TIME. STANDING WATER WAS OBSERVED ON SOUTH SIDE OF PRB DUE TO RAIN ON 2/18/2013.

PRB=Permeable reactive barrier

Delatte Metals O&M Well Inspection Checklist

SEMS Project #:

207-0016

Field Crew:

0016
Maghee Shaw
~~Mc Rode Forest~~
Lance Menix

Page 1 of 3

Delatte Metals O&M Well Inspection Checklist

Page 203

SEMS Project #:

207-0016

Field Crew:

Maggie Shaw
Mark Rodd
Lance Meaux

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
MW-6	2/18/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	Replaced Lock
BB-01	2/19/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
South Well	2/18/13	NA	NA	NA	NA	NA	yes	no	no	no	no	no	no	
BC-17	2/19/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
North Well	2/19/13	NA	NA	NA	NA	NA	yes	no	no	no	no	no	no	
BC-21R	2/19/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
BA-01A	2/20/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
BA-01	2/20/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
DW-3	2/20/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
PW-4	2/20/13	yes	yes	good	PAINTED YES	good	yes	no	no	no	no	no	no	Re-painted at labeled well & replaced lock
DW-2	2/20/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	
BA-05A	2/20/13	yes	yes	good	no	good	yes	no	no	no	no	no	no	

Delatte Metals O&M Well Inspection Checklist

SEMS Project #:

207-0016

Field Crew:

2017-0016
Maghee Shaw
NICK RODETTO
LANCE MEARS

Page 3 of 3

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-07
Date Purged/Sampled: 2/15 Sampled By: LS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18.5 ft. Purge Flow Rate: 780 mL/min
 Static Depth to Groundwater (DTW): 2.60 ft. Volume Purged: _____ gallons
 Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
 Depth to Top of Well Screen (TD-SL): 8.0 ft. Sample: 3/18 @ 929 Time
 Height of Water Column (H=TD-DTW): _____ ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well ($H \times 0.163$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well ($H \times 0.653$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: DW-04
 Date Purged/Sampled: 2/18 Sampled By: LSP

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 38 ft. Purge Flow Rate: 240 mL/min
 Static Depth to Groundwater (DTW): 4.04 ft. Volume Purged: _____ gallons
 Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
 Depth to Top of Well Screen (TD-SL): 27.5 ft. Sample: 2/18 @ 1031 Time
 Height of Water Column (H=TD-DTW): 34 ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1020	240	-	-	-	-	-	-	4.04
1025	"	19.61	1.230	7.15	7.26	128	0.1	5.00
1028	"	19.64	1.231	7.13	7.30	135	0.7	5.29
1031	"	19.71	1.230	7.18	7.33	140	0.5	5.38

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	<input checked="" type="checkbox"/>	Dissolved Metals Collected	_____
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SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	BC-19
Date Purged/Sampled:	7/19 Sampled By: LS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 22.5 ft. Purge Flow Rate: 200 mL/min
Static Depth to Groundwater (DTW): 4.44 ft. Volume Purged: _____ gallons
Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 12.0 ft. Sample: 2/4 @ 1054 Time
Height of Water Column (H=TD-DTW): _____ ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BC-25
 Date Purged/Sampled: 2/18 Sampled By: LS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 32.0 ft.
 Static Depth to Groundwater (DTW): 5.74 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 21.5 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2/18 @ 1152 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify)

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if > 10 NTU or FTU)	<0.3 ft. or Top of Screen
11:24	—	—	—	—	—	—	—	5.74
11:29	240 mL/m	19.34	0.777	4.36	7.18	392	17.8	6.04
11:34	"	19.42	0.815	3.20	7.09	256	6.8	6.04
11:39	"	19.56	0.901	1.22	6.92	78	4.2	6.08
11:46	"	19.61	0.920	0.79	6.87	56	0.7	6.08
11:49	"	19.64	0.919	0.71	6.85	53	1.8	6.08
11:52	"	19.66	0.922	0.61	6.85	52	4.1	6.08

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
------------------------	---	----------------------------	--

SHEET 1 OF 1

+ Replaced Lock

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: MW-3
 Date Purged/Sampled: 2/18/13 Sampled By: LSM/NR

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 27.5 ft.
 Static Depth to Groundwater (DTW): 6.19 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 17.0 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 270 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2/18/13 @ 1223 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-. 1°C	+/-. 3%	+/-. 10%	+/-. 0.1	+/-. 10%	+/-. 10% (if >10 NTU or FTU)	<.3 ft. or Top of Screen
12:06	270 ^{ml/min}	-	-	-	-	-	-	6.19
12:11	"	19.27	1.84	0.79	6.67	182	3.1	6.35
12:14	"	19.30	1.85	0.63	6.65	195	3.5	6.43
12:17	"	19.29	1.85	0.54	6.65	198	3.2	6.52
12:20	"	19.43	1.85	0.44	6.64	199	3.6	6.61
12:23	"	19.55	1.85	0.34	6.64	187	2.6	6.75

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	_____
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SHEET 1 OF 1

* Replaced Lock

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: MW-6
 Date Purged/Sampled: 2/18/13 Sampled By: LSM / NPL

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 16.5 ft.
 Static Depth to Groundwater (DTW): 7.23 ft.
 Screen Length (SL) from Boring Logs: UNK ft.
 Depth to Top of Well Screen (TD-SL): UNK ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 210 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2/18 @ 1325 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
12-55	210	-	-	-	-	-	-	7.23
1300	17	18.40	0.900	1.75	3.38	409	1.2	7.72
1305	17	18.50	0.820	1.60	3.52	413	7.0	7.73
1310	17	18.48	0.725	1.23	3.51	417	12.9	"
1315	17	18.4	0.762	0.91	3.43	422	7.5	"
1320	17	18.4	0.773	0.90	3.43	424	5.5	"
1325	17	18.7	0.764	0.62	3.42	427	6.8	"

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected
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SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: South Well
Date Purged/Sampled: 2/18 Sampled By: LSN

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft. Purge Flow Rate: — mL/min
 Static Depth to Groundwater (DTW): UNK ft.
 Screen Length (SL) from Boring Logs: UNK ft. Volume Purged: — gallons
 Depth to Top of Well Screen (TD-SL): UNK ft.
 Height of Water Column (H=TD-DTW): UNK ft. Date/Time of
 Sample: 2/18/2013 @ 1416 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

~~* Duplicate #1~~

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BB-01
 Date Purged/Sampled: 2/19/13 Sampled By: NR/MS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 96.0 ft.
 Static Depth to Groundwater (DTW): 2.30 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 85.5 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 180 mL/min
 Volume Purged: 2 gallons
 Date/Time of Sample: 2/19 @ 9:04 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify)

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
8:43	—	—	—	—	—	—	—	2.30
8:48	—	19.82	0.292	0.25	9.66	47	17.2	2.45
8:53	—	19.18	0.296	0.30	9.69	38	6.6	2.43
8:58	—	19.28	0.294	0.29	9.71	29	6.1	2.43
9:01	—	19.30	0.294	0.28	9.77	25	5.8	2.43
9:04	—	19.30	0.295	0.26	9.82	19	5.7	2.43

- Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	<input checked="" type="checkbox"/>	Dissolved Metals Collected	
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SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	BC-17
Date Purged/Sampled:	2/9/13 Sampled By: NR / ms

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.0 ft. Purge Flow Rate: 210 mL/min
Static Depth to Groundwater (DTW): 4.12 ft. Volume Purged: 1 gallons
Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 17.5 ft. Sample: 2/19 @ 935 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: North Well
Date Purged/Sampled: 2/19/13 Sampled By: MS/NP

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft. Purge Flow Rate: — mL/min
 Static Depth to Groundwater (DTW): UNK ft.
 Screen Length (SL) from Boring Logs: UNK ft. Volume Purged: — gallons
 Depth to Top of Well Screen (TD-SL): UNK ft.
 Height of Water Column (H=TD-DTW): UNK ft. Date/Time of Sample: 2/19@ 1008/1

WELL CASING VOLUME CALCULATIONS

- 2" Well ($H \times 0.163$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well ($H \times 0.653$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

SHEET OF

LOW-FLOW GROUNDWATER SAMPLING LOG

MS/MSD

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-21R
Date Purged/Sampled: 2/19/13 Sampled By: MSNR

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 17.5 ft. Purge Flow Rate: 270 mL/min
 Static Depth to Groundwater (DTW): 4.00 ft. Volume Purged: _____ gallons
 Screen Length (SL) from Boring Logs: 5 ft. Date/Time of
 Depth to Top of Well Screen (TD-SL): 12.0 ft. Sample: 2101 @ 1239 Time

Height of Water Column (H=TD-DTW): ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BA-09
 Date Purged/Sampled: 2/19/13 Sampled By: M.S./NP

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18 ft.
 Static Depth to Groundwater (DTW): 10 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 7.5 ft.
 Height of Water Column (H=TD-DTW): 8 ft.

Purge Flow Rate: 290 mL/min
 Volume Purged: 2.5 gallons
 Date/Time of Sample: 2/19@ 11:35 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify)

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
11:12	—	—	—	—	—	—	—	—
11:17	—	19.31	3.96	0.18	7.53	178	8.6	6.27
11:22	—	19.20	3.50	0.20	7.53	251	6.2	6.30
11:27	—	19.22	3.34	0.32	7.45	327	2.1	6.30
11:32	—	19.27	3.17	0.44	7.41	322	2.0	6.30
11:35	—	19.28	2.98	0.50	7.40	334	1.8	6.30
11:38	—	19.22	2.80	0.47	7.42	322	1.8	6.30

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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SHEET 1 OF 1

DRAFT NO. 2

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BA-09A
 Date Purged/Sampled: 2-19-13 Sampled By: NRHMS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 42.0 ft.
 Static Depth to Groundwater (DTW): 0.7 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 31.5 ft.
 Height of Water Column (H=TD-DTW): ft.
 Purge Flow Rate: 270 mL/min
 Volume Purged: gallons
 Date/Time of Sample: 2-19 @ 1226 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min.	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1158	—	—	—	—	—	—	—	0.7
1203	—	20.49	0.252	3.42	6.74	-40	27.6	2.37
1208	—	20.40	0.251	2.35	6.91	-37	18.7	3.12
1211	—	20.28	0.247	2.06	6.99	-32	11.2	3.47
1214	—	20.33	0.247	1.66	7.02	-27	9.7	3.75
1217	—	20.36	0.246	1.34	7.05	-20	7.6	4.06
1220	—	20.32	0.246	1.14	7.07	-15	4.3	4.20
1223	—	20.34	0.245	1.09	7.07	-12	4.6	4.33
1226	—	20.34	0.245	0.96	7.09	-11	4.2	4.33

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: WW-09
Date Purged/Sampled: 2/19/13 Sampled By: MS/ME

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft. Purge Flow Rate: _____ mL/min
 Static Depth to Groundwater (DTW): UNK ft. Volume Purged: _____ gallons
 Screen Length (SL) from Boring Logs: UNK ft. Date/Time of
 Depth to Top of Well Screen (TD-SL): UNK ft. Sample: 2/19 @ 1320 Time
 Height of Water Column (H=TD-DTW): UNK ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: MW-4
 Date Purged/Sampled: 2-19-13 Sampled By: MS/NR

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 24 ft. Purge Flow Rate: 280 mL/min
 Static Depth to Groundwater (DTW): 12.62 ft. Volume Purged: _____ gallons
 Screen Length (SL) from Boring Logs: 10 ft. Date/Time of Sample: _____
 Depth to Top of Well Screen (TD-SL): 13.5 ft. Height of Water Column (H=TD-DTW): _____ ft.
 _____ ft. 2-19@ 143 time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify)

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
14:06	—	—	—	—	—	—	—	12.62
14:11	—	19.93	0.515	1.66	6.40	-3	56.3	16.80
14:16	—	19.99	0.539	1.65	6.44	-15	44.4	17.47
14:19	—	20.02	0.525	1.66	6.46	-16	31.1	17.67
14:22	—	20.08	0.501	1.68	6.48	-18	28.1	17.90
14:25	—	20.10	0.478	1.75	6.49	-22	6.4	17.96
14:28	—	20.20	0.471	1.80	6.52	-24	2.3	18.02
14:31	—	20.19	0.478	1.79	6.49	-27	4.7	

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	<input checked="" type="checkbox"/>	Dissolved Metals Collected	
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LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-03
Date Purged/Sampled: 2/20/13 Sampled By: NR/MS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.0 ft. Purge Flow Rate: 240 mL/min
Static Depth to Groundwater (DTW): 4.00 ft. Volume Purged: 1 gallons
Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 17.5 ft.
Height of Water Column (H=TD-DTW): _____ ft. Sample: 2/20 @ 1011 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: WW - 04
Date Purged/Sampled: 2-20-13 Sampled By: ARMS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/20@ 1041pm

WELL CASING VOLUME CALCULATIONS

- 2" Well ($H \times 0.163$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well ($H \times 0.653$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) lot water from fire
20 min

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site		
Project No.:	207-0016		
Site Location:	Ponchatoula, Louisiana		
Monitor Well No.:	(b) (6)	Well	
Date Purged/Sampled:	2-2013	Sampled By:	NR/MS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: _____ mL/min
Volume Purged: _____ gallons
Date/Time of Sample: 2/20@1055 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) Let water flow for
30 min.

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	BA-01A
Date Purged/Sampled:	2, 20, 13 Sampled By: NR / ms

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD):	<u>46.0</u>	ft.	Purge Flow Rate:	<u>240</u>	mL/min
Static Depth to Groundwater (DTW):	<u>4.09</u>	ft.	Volume Purged:	<u>1.5</u>	gallons
Screen Length (SL) from Boring Logs:	<u>10</u>	ft.	Date/Time of		
Depth to Top of Well Screen (TD-SL):	<u>35.5</u>	ft.	Sample:	<u>2/20@132</u> /Time	
Height of Water Column (H=TD-DTW):		ft.			

WELL CASING VOLUME CALCULATIONS

- 2" Well ($H \times 0.163$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well ($H \times 0.653$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
□ Other: _____

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BA-01
 Date Purged/Sampled: 2-20-13 Sampled By: MR/mS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 26.0 ft.
 Static Depth to Groundwater (DTW): 5.92 ft.
 Purge Flow Rate: 280 mL/min
 Screen Length (SL) from Boring Logs: 10 ft.
 Volume Purged: _____ gallons
 Depth to Top of Well Screen (TD-SL): 15.5 ft.
 Date/Time of Sample: _____
 Height of Water Column (H=TD-DTW): _____ ft.
 2/20@ 1402 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
13:24	—	—	—	—	—	—	—	5.92
13:29	—	19.84	2.44	0.84	5.66	138	87.8	7.50
13:34	—	20.01	2.56	0.44	5.56	91	46.3	8.56
13:39	—	21.07	2.43	0.35	5.69	72	40.2	9.19
13:44	—	21.04	2.28	0.32	5.87	54	24.0	9.65
13:49	—	21.17	2.14	0.31	5.98	39	18.0	9.90
13:52	—	21.21	2.11	0.32	6.03	35	19.8	9.42
13:53	—	20.96	2.02	0.33	6.09	21	13.8	8.98
13:56	—	20.98	1.98	0.33	6.13	23	14.8	8.80

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	<input checked="" type="checkbox"/>	Dissolved Metals Collected	<input checked="" type="checkbox"/>
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LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA - 01
Date Purged/Sampled: 2/20/13 Sampled By: NR/ms

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 26.0 ft. Purge Flow Rate: 280 mL/min
Static Depth to Groundwater (DTW): 5.92 ft. Volume Purged: _____ gallons
Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 15.5 ft.
Height of Water Column (H=TD-DTW): _____ ft. Sample: 2/20 @ 1402 Time

WELL CASING VOLUME CALCULATIONS

2" Well ($H \times 0.163$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well ($H \times 0.653$ gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
- Low-flow Submersible Pump
- Water Well
- Other (Specify)

METHOD OF SAMPLE COLLECTION

Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

SHEET 2 OF 2

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: DW-03
 Date Purged/Sampled: 2-20-13 Sampled By: MR/m5

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 16 ft.
 Static Depth to Groundwater (DTW): 5.35 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 5.5 ft.
 Height of Water Column (H=TD-DTW): ft.
 Purge Flow Rate: 250 mL/min
 Volume Purged: gallons
 Date/Time of Sample: 2-20@1440 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1415	—	—	—	—	—	—	—	5.35
1420	—	17.85	0.268	1.16	4.10	433	4.3	5.60
1425	—	17.77	0.264	1.01	4.03	400	7.3	5.60
1428	—	17.90	0.282	0.91	4.04	364	4.4	5.60
1431	—	17.91	0.326	0.79	4.06	303	1.9	5.60
1434	—	17.98	2.14	0.29	3.67	265	4.4	5.70
1437	—	18.10	2.33	0.24	3.43	253	3.2	5.70
1440	—	18.07	2.34	0.26	3.61	248	2.5	5.65
1								

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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LOW-FLOW GROUNDWATER SAMPLING LOG

* Replaced lock *
* Printed *

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: PW-04
 Date Purged/Sampled: 2.20.13 Sampled By: NPMS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 19.5 ft.
 Static Depth to Groundwater (DTW): 3.93 ft.
 Screen Length (SL) from Boring Logs: UNK ft.
 Depth to Top of Well Screen (TD-SL): UNK ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2.20 @ 1503 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
14:50	—	—	—	—	—	—	—	3.93
1455	—	17.87	0.925	0.30	4.02	313	2.4	4.24
1500	—	18.06	0.915	0.29	3.98	313	1.0	4.22
1503	—	18.12	0.914	0.28	3.97	314	2.2	4.22

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site	
Project No.:	207-0016	
Site Location:	Ponchatoula, Louisiana	
Monitor Well No.:	DW-02	
Date Purged/Sampled:	2-20-13	Sampled By: <i>NPR/MS</i>

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 11 ft. Purge Flow Rate: 280 mL/min
 Static Depth to Groundwater (DTW): 3.45 ft. Volume Purged: . . . gallons
 Screen Length (SL) from Boring Logs: 5 ft. Date/Time of
 Depth to Top of Well Screen (TD-SL): 5.5 ft. Sample: 200@1532 Time
 Height of Water Column (H=TD-DTW): ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected Dissolved Metals Collected

LOW-FLOW GROUNDWATER SAMPLING LOG

~~* Replacement log~~ ms
ING LOG mg
* ms/ms D

Project: Delatte Metals Superfund Site
Project No.: 207-0016
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-05
Date Purged/Sampled: 3-20-13 Sampled By: NR/ms

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18.5 ft. Purge Flow Rate: 240 mL/min
Static Depth to Groundwater (DTW): 7.36 ft. Volume Purged: _____ gallons
Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 8.0 ft.
Height of Water Column (H=TD-DTW): _____ ft. Sample: 7/20@11:24 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Bailer Dedicated Disposable
 - Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

SHEET OF

* DUPLICATE #4

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BA-05A
 Date Purged/Sampled: 2/20/13 Sampled By: NR/ms

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 54.0 ft.
 Static Depth to Groundwater (DTW): 28.2 ft.
 Screen Length (SL) from Boring Logs: 5 ft.
 Depth to Top of Well Screen (TD-SL): 36.0 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2/20@1708 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time hr/min	Volume Purged Gal (cumulative)	Temp. °C	Specific Conductivity mS/cm	Dissolved Oxygen mg/L	pH Standard Units	ORP mV	Turbidity NTU or FTU	DTW feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1640	—	—	—	—	—	—	—	2.82
1645	—	20.10	0.255	3.70	7.49	-37	4.8	5.58
1650	—	19.95	0.255	2.92	7.50	-26	4.6	7.50
1653	—	19.99	0.255	2.28	7.46	-17	4.2	7.96
1656	—	19.99	0.255	2.20	7.46	-16	3.9	8.39
1659	—	20.00	0.255	1.81	7.47	-13	1.1	8.66
1702	—	20.01	0.255	1.53	7.47	-11	1.9	8.76
1705	—	20.04	0.255	1.34	7.53	-10	1.0	8.99
1708	—	19.99	0.255	1.22	7.52	-10	1.6	9.05

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: MW-A
 Date Purged/Sampled: 2/20/13 Sampled By: MR/m5

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 27 ft.
 Static Depth to Groundwater (DTW): 9.50 ft.
 Screen Length (SL) from Boring Logs: 10 ft.
 Depth to Top of Well Screen (TD-SL): 16.5 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 290 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2/20 @ 1740 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify)

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1714	—	—	—	—	—	—	—	9.50
1719	—	20.21	0.741	1.98	7.25	14	3.2	11.55
1724	—	20.56	0.739	1.74	7.24	19	3.7	11.79
1729	—	20.72	0.739	1.46	7.23	25	2.5	11.95
1734	—	20.63	0.733	1.14	7.23	31	2.0	11.69
1737	—	20.52	0.731	1.16	7.23	32	1.6	11.70
1740	—	20.66	0.730	1.02	7.22	33	1.4	11.70

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: DW-01
 Date Purged/Sampled: 2/20/13 Sampled By: NR/m.s

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 19 ft.
 Static Depth to Groundwater (DTW): 9.48 ft.
 Purge Flow Rate: 240 mL/min
 Screen Length (SL) from Boring Logs: 10 ft.
 Volume Purged: _____ gallons
 Depth to Top of Well Screen (TD-SL): 8.5 ft.
 Date/Time of
 Height of Water Column (H=TD-DTW): _____ ft. Sample: 2/20 @ 1820 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1748	—	—	—	—	—	—	—	9.48
1753	—	19.06	0.820	0.24	5.74	123	42.1	10.44
1758	—	19.06	1.319	0.23	4.71	194	14.9	10.54
1803	—	19.02	1.470	0.22	4.54	228	7.0	10.51
1808	—	18.83	1.51	0.29	4.99	187	10.6	10.12
1811	—	18.74	1.56	0.26	4.63	214	11.4	10.31
1814	—	18.11	1.74	0.23	4.51	228	11.7	10.45
1817	—	18.05	1.73	0.22	4.45	239	16.0	10.70
1820	—	18.04	1.73	0.23	4.44	240	18.8	10.73

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	<input checked="" type="checkbox"/>	Dissolved Metals Collected	<input checked="" type="checkbox"/>
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SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: MW-01
 Date Purged/Sampled: 2/21/2013 Sampled By: NR/MS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.5 ft.
 Static Depth to Groundwater (DTW): 12.73 ft.
 Screen Length (SL) from Boring Logs: 15 ft.
 Depth to Top of Well Screen (TD-SL): 13 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: 240 mL/min
 Volume Purged: _____ gallons
 Date/Time of Sample: 2/21 @ 818 Time

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
802	—	—	—	—	—	—	—	12.73
807	—	20.11	4.36	0.71	3.56	95	3.4	12.81
812	—	20.07	4.42	0.66	3.45	77	3.9	12.82
815	—	20.10	4.45	0.63	3.44	70	2.1	12.82
818	—	20.09	4.46	0.61	3.44	59	2.2	12.82

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	
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SHEET OF

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
 Project No.: 207-0016
 Site Location: Ponchatoula, Louisiana
 Monitor Well No.: BA-03A
 Date Purged/Sampled: 2/21/15 Sampled By: NR/MS

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 100 ft. Purge Flow Rate: 240 mL/min
 Static Depth to Groundwater (DTW): 1.15 ft. Volume Purged: _____ gallons
 Screen Length (SL) from Boring Logs: 10 ft. Date/Time of Sample: 2/21@ 853 Time
 Depth to Top of Well Screen (TD-SL): 89.5 ft.
 Height of Water Column (H=TD-DTW): _____ ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other: _____

PURGING METHOD

- Peristaltic Pump
 Low-flow Submersible Pump
 Water Well
 Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/cm	mg/L	Standard Units	mV	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
826	—	—	—	—	—	—	—	1.15
831	—	19.80	0.287	0.54	7.48	-184	4.7	1.16
834	—	18.93	0.289	0.55	7.67	-190	2.6	1.18
837	—	19.00	0.290	0.54	7.95	-180	3.1	1.16
840	—	19.01	0.289	0.53	8.01	-178	2.2	1.16
843	—	19.09	0.290	0.52	8.10	-174	2.5	1.16
847	—	19.13	0.290	0.51	8.20	-175	1.8	1.16
850	—	19.08	0.290	0.51	8.26	-175	2.4	1.16
853	—	19.15	0.288	0.51	8.28	-175	2.6	1.16

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
 2. Take measurements every 3 to 5 minutes.

Total Metals Collected	✓	Dissolved Metals Collected	_____
------------------------	---	----------------------------	-------

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Ponchatoula, Louisiana
Monitor Well No.:	BA-03
Date Purged/Sampled:	2/21/13 Sampled By: MR/mjs

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 13.5 ft. Purge Flow Rate: 240 mL/min
Static Depth to Groundwater (DTW): 6.12 ft. Volume Purged: _____ gallons
Screen Length (SL) from Boring Logs: 10 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 3 ft. Sample: 2/21 @ 911 Time
Height of Water Column (H=TD-DTW): _____ ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify) _____

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

LOW-FLOW GROUNDWATER SAMPLING LOG

Project:	Delatte Metals Superfund Site
Project No.:	207-0016
Site Location:	Pouchatoula, Louisiana
Monitor Well No.:	MW-2
Date Purged/Sampled:	2/21/13 Sampled By: NR/m

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 10.5 ft. Purge Flow Rate: 240 mL/min
Static Depth to Groundwater (DTW): 10.48 ft. Volume Purged: _____ gallons
Screen Length (SL) from Boring Logs: 5 ft. Date/Time of
Depth to Top of Well Screen (TD-SL): 5 ft. Sample: 3/21 @ 928 Time
Height of Water Column (H=TD-DTW): _____ ft.

WELL CASING VOLUME CALCULATIONS

- 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
 Other:

PURGING METHOD

- Peristaltic Pump
 - Low-flow Submersible Pump
 - Water Well
 - Other (Specify)

METHOD OF SAMPLE COLLECTION

- Peristaltic Pump
 Low-flow Submersible Pump
 Bailer Dedicated Disposable
 Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected ✓ Dissolved Metals Collected

SHEET | OF |



CHAIN OF CUSTODY

Accutest Gulf Coast/SPL Environmental
500 Ambassador Caffery Pkwy Scott, LA 70583
TEL:337-237-4775 FAX: 337-237-7838
www.accutest.com/www.spl-inc.com

PAGE 1 OF 1

Client / Reporting Information			Project Information												Requested Analyses												Matrix Codes			
Company Name SEMS-Metairie			Project Name: Delatte Metals Superfund Site																								DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank			
Street Address 3801 N. Causeway Blvd. Suite 209			Street			Billing Information (if different from Report to)																								
City Metairie	State LA	Zip 70002	City Ponchatoula	State LA	Company Name																									
Project Contact Nick Rodehorst			E-mail nrodehorst@semsinc.net			Project #			Street Address																					
Phone # 504-451-8083	Fax #	Client Purchase Order # 207-0016			City			State			Zip																			
Sampler(s) Name(s) Maghee Shaw, Nick Rodehorst			Phone #	Project Manager			Attention:																							
Accutest Sample # Field ID / Point of Collection			Collection						Number of preserved Bottles																					
			Date BC - 01	Time 2-18-13	Sampled By NR	Matrix MW	# of bottles 1	HCl	NaOH	ZnNOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	X										
			DW - 04	1031						X										X										
			BC - 19	1054						X										X										
			BC - 25	1152						X										X										
			MW - 3	1223						X										X										
			MW - 6	1325						X										X										
			SOUTH WELL	1416	↓					X										X										
			BB - 01	2-19-13	904	MS/NR		1	X											X										
			BC - 17	935					X											X										
			NORTH WELL	1008					X											X										
			BC - 21B	1039					X											X										
BA - 09	1138	↓			1	X											X													
Turnaround Time (Business days)			Data Deliverable Information												Comments / Special Instructions															
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY			Approved By (Accutest PM): / Date: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>												<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C" TRRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____															
															*Total Metals: As, Cd, Pb, Mn, Ni, Th, Zn **Dissolved Metals (Field Filtered): As, Cd, Pb, Mn, Ni, Th, Zn															

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:		
1 <i>Mughaferis</i>	2/21/13 1455	1 <i>[Signature]</i>	2		2		
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:		
3		3	4		4		
Relinquished by:	Date Time:	Received By:	Custody Seal #	<input type="checkbox"/> Intact <input type="checkbox"/> Not intact	Preserved where applicable	On Ice	Cooler Temp.
5		5		<input type="checkbox"/>		<input type="checkbox"/>	



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www.accutest.com/www.spl-inc.com

PAGE 2 OF 4

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: Mcgahan	Date Time: 2/21/13 1455	Received By: 1	Relinquished By: 2	Date Time:	Received By: 2		
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4		
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	<input type="checkbox"/> Intact <input type="checkbox"/> Not intact	Preserved where applicable <input type="checkbox"/>	On Ice <input type="checkbox"/>	Cooler Temp. <input type="checkbox"/>



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PAGE 3 OF 4

Sample Custody must be documented below each time samples change possession, including courier delivery.

Sample Custody must be documented below each time samples change possession, including carrier delivery.								
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:			
1	Wagner Jwr	02/21/13 1455	2		2			
3			3		4			
5			5	Custody Seal #	<input type="checkbox"/> intact <input type="checkbox"/> Not intact	Preserved where applicable	On Ice	Cooler Temp.



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PAGE 4 OF 4

Client / Reporting Information		Project Information		Requested Analyses												Matrix Codes								
Company Name SEMS-Metairie Street Address 3801 N. Causeway Blvd. Suite 209		Project Name: Delatte Metals Superfund Site														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank								
City Metairie State LA Zip 70002		City Ponchatoula State LA		Billing Information (if different from Report to)																				
Project Contact Nick Rodehorst E-mail nrodehorst@semsinc.net		Project # 207-0016		Company Name																				
Phone # 504-451-8083		Fax #		Client Purchase Order #		City		State		Zip														
Sampler(s) Name(s) <i>Nick Rodehorst And Maggie Shaw</i>		Phone #		Project Manager		Attention:																		
Accutest Sample # <i>BC - 21R MSD</i> <i>BA - 05 MS</i> <i>RA - 05 MSD</i>		Collection						Number of preserved Bottles												Total Metals*	Dissolved Metals**	LAB USE ONLY		
		Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnNOH	HNO3	H2SO4	None	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER						
		2/19/13	1039	NR/ms	W	1	X																	
		2/20/13	1624			1	X																	
Turnaround Time (Business days)		Data Deliverable Information												Comments / Special Instructions										
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM): / Date: <i>[Signature]</i> 2/21/13		<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C"						<input type="checkbox"/> TRRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____						*Total Metals: As, Cd, Pb, Mn, Ni, Th, Zn **Dissolved Metals (Field Filtered): As, Cd, Pb, Mn, Ni, Th, Zn								
Emergency & Rush T/A data available VIA Lablink		Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC & Surrogate Summary																						
Sample Custody must be documented below each time samples change possession, including courier delivery.																								
Transferred by Sampler: <i>M. Shaw</i>		Date Time: <i>2/21/13 1455</i>	Received By: <i>1</i>		Relinquished By: <i>2</i>		Date Time: <i>2</i>		Received By: <i>2</i>															
		Date Time: <i>3</i>	Received By: <i>3</i>		Relinquished By: <i>4</i>		Date Time: <i>4</i>		Received By: <i>4</i>															
		Date Time: <i>5</i>	Received By: <i>5</i>		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not intact		Preserved where applicable		On Ice		Cooler Temp.											

ATTACHMENT B
LABORATORY ANALYTICAL REPORT



ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:
SEMS, INC.

Certificate of Analysis Number:
L0026284

<u>Report To:</u> SEMS, INC. NICK RODEHORST 3801 NORTH CAUSEWAY BLVD SUITE 209 METAIRIE LA 70002- ph: (504) 342-2340 fax:	<u>Project Name:</u> 207-0016 <u>Site:</u> DELATTE METALS <u>Site Address:</u> <u>PO Number:</u> <u>State:</u> Louisiana <u>State Cert. No.:</u> 02048 <u>Date Reported:</u> 4/2/2013
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NOTE: THIS REPORT HAS BEEN AMENDED FROM THE ORIGINAL. THIS REPORT REPLACES IN ITS ENTIRETY ANY PREVIOUSLY SUBMITTED COPY.

NOTE: The Method 6020 analyses were sub-contracted to the Accutest-Mid Atlantic laboratory in Dayton, New Jersey. The data as submitted by Accutest-Mid Atlantic is included in its entirety as an attachment to this report.

I. SAMPLE RECEIPT

A. All samples were received intact. The internal ice chest temperatures were measured upon receipt and recorded on the Sample Receipt Checklist included in this data package.

II. ANALYSIS

A. Holding Times: All analyses were completed within the recommended holding time

B. Measurement Basis: "J" values may be presented for the analyses in this report. Programmatically, "J" values are those confirmed values for components detected less than the "Rep. Limit" but greater than the laboratory method detection limit (MDL). Thus, it should be noted that positive values may appear on quantitation reports but not on Form I if those values are below the MDL.

C. Analytical Exceptions: All exceptions noted on sub-contract laboratory report.

III. QUALITY CONTROL

A. Analytical Protocol and Deliverables: The samples were analyzed in accordance with the protocol requirements.

B. Initial and Continuing Calibrations: All QA acceptance criteria were met for initial and continuing calibration samples.

C. Blanks: Method and calibration blanks met the method criteria.

NOTE: This data package was produced using software base on CLP type deliverables. The forms and documentation in this data package are to be considered "CLP-like" and may not meet all the criteria specified in the CLP protocols. The data are reported based on the method requirements.

CERTIFICATION:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Amy K. Jackson
Project Manager

5/2/2013

Date

Test results meet all requirements of NELAC, unless specified in the narrative.



ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

L0026284

<u>Report To:</u>	SEMS, INC. NICK RODEHORST 3801 NORTH CAUSEWAY BLVD SUITE 209 METAIRIE LA 70002- ph: (504) 342-2340	<u>Project Name:</u>	207-0016
	fax:	<u>Site:</u>	DELATTE METALS
		<u>Site Address:</u>	PONCHATOULA LA
		<u>PO Number:</u>	
		<u>State:</u>	Louisiana
		<u>State Cert. No.:</u>	02048
<u>Fax To:</u>		<u>Date Reported:</u>	4/2/2013

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BC-07	L0026284-01	Water	02/18/2013 9:29	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DW-04	L0026284-02	Water	02/18/2013 10:31	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-19	L0026284-03	Water	02/18/2013 10:54	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-25	L0026284-04	Water	02/18/2013 11:52	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-3	L0026284-05	Water	02/18/2013 12:23	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-6	L0026284-06	Water	02/18/2013 13:25	2/22/2013 2:30:00 PM		<input type="checkbox"/>
SOUTH WELL	L0026284-07	Water	02/18/2013 14:16	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BB-01	L0026284-08	Water	02/19/2013 9:04	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-17	L0026284-09	Water	02/19/2013 9:35	2/22/2013 2:30:00 PM		<input type="checkbox"/>
NORTH WELL	L0026284-10	Water	02/19/2013 10:08	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-21R	L0026284-11	Water	02/19/2013 10:39	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-21RMS	L0026284-11MS	Water	02/19/2013 10:39	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-21RMSD	L0026284-11MSD	Water	02/19/2013 10:39	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-09	L0026284-12	Water	02/19/2013 11:38	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-09A	L0026284-13	Water	02/19/2013 12:26	2/22/2013 2:30:00 PM		<input type="checkbox"/>
WW-09	L0026284-14	Water	02/19/2013 13:20	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-04	L0026284-15	Water	02/19/2013 14:31	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-03	L0026284-16	Water	02/20/2013 10:11	2/22/2013 2:30:00 PM		<input type="checkbox"/>
WW-04	L0026284-17	Water	02/20/2013 10:46	2/22/2013 2:30:00 PM		<input type="checkbox"/>
(b) (6) WELL	L0026284-18	Water	02/20/2013 10:55	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-01A	L0026284-19	Water	02/20/2013 13:21	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-01	L0026284-20	Water	02/20/2013 14:02	2/22/2013 2:30:00 PM		<input type="checkbox"/>

5/2/2013

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Rebecca Haryett
Quality Assurance Officer



ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

L0026284

<u>Report To:</u>	SEMS, INC. NICK RODEHORST 3801 NORTH CAUSEWAY BLVD SUITE 209 METAIRIE LA 70002- ph: (504) 342-2340 fax:	<u>Project Name:</u>	207-0016
		<u>Site:</u>	DELATTE METALS
		<u>Site Address:</u>	PONCHATOULA LA
		<u>PO Number:</u>	
		<u>State:</u>	Louisiana
		<u>State Cert. No.:</u>	02048
		<u>Date Reported:</u>	4/2/2013

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DW-03	L0026284-21	Water	02/20/2013 14:40	2/22/2013 2:30:00 PM		<input type="checkbox"/>
PW-04	L0026284-22	Water	02/20/2013 15:03	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DW-02	L0026284-23	Water	02/20/2013 15:32	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05	L0026284-24	Water	02/20/2013 16:24	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05MS	L0026284-24MS	Water	02/20/2013 16:24	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05MSD	L0026284-24MSD	Water	02/20/2013 16:24	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05A	L0026284-25	Water	02/20/2013 17:08	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-A	L0026284-26	Water	02/20/2013 17:40	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DW-01	L0026284-27	Water	02/20/2013 18:20	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-01	L0026284-28	Water	02/21/2013 8:18	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-03A	L0026284-29	Water	02/21/2013 8:53	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-03	L0026284-30	Water	02/21/2013 9:11	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-02	L0026284-31	Water	02/21/2013 9:28	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #1	L0026284-32	Water	02/19/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #2	L0026284-33	Water	02/19/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #3	L0026284-34	Water	02/20/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #4	L0026284-35	Water	02/20/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>

Amy K. Jackson
Project Manager

5/2/2013

Date

Ron Benjamin
Laboratory Director

Rebecca Haryett
Quality Assurance Officer



ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	L0026284	Received By:	SRS
Date and Time Received:	2/22/2013 2:30:00 PM	Carrier name:	Accutest-Delivery
Temperature:	3.5°C	Chilled by:	Water Ice

- | | | | |
|--|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | VOA Vials Not Present <input checked="" type="checkbox"/> |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

*VOA Preservation Checked After Sample Analysis

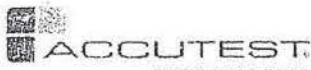
Accutest Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance
Issues:

Client Instructions:



CHAIN OF CUSTODY

Accutest Gulf Coast/SPL Environmental
500 Ambassador Caffery Pkwy. Scott, LA 70583
TEL: 337-237-4775 FAX: 337-237-7838
www.accutest.com/www.spl-luc.com

PAGE 1 OF 4

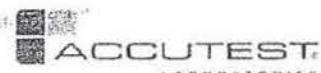


CHAIN OF CUSTODY

Accutest Gulf Coast/SPL Environmental
 500 Ambassador Caffery Pkwy, Secon, LA 70883
 TEL 337-237-4775 FAX 337-237-7838
www.accutest.com/www.spl-inc.com

PAGE 2 OF 4

Client / Reporting Information		Project Information		Requested Analyses		Matrix Codes						
Company Name SEMS-Metairie		Project Name Delatte Metals Superfund Site										
Street Address 3801 N. Causeway Blvd, Suite 209		Street City Ponchatoula State LA		Billing Information (If different from Report to) Company Name								
City Metairie State LA Zip 70002	Project Contact E-mail Nick Rodehorst nrodehorst@semsinc.net	Project # 207-0016		Street Address								
Phone # 504-451-8083	Fax #	Client Purchase Order #		City	State	Zip						
Sampler(s) Name(s) Maggie Shaw & Nick Rodehorst		Phone #	Project Manager	Attention:								
Field ID / Point of Collection		Date	Time	Sampled By	Matrix	# of bottles	Total Metals*	Dissolved Metals**	LAB USE ONLY			
BA - 09A		02-19-13	1226	NR/MS	W	1	X					
WW - 09			1320			1	X					
MW - 04			1431			1	X					
BL - 03		02-20-13	1011			1	X					
WW - 04			1046			1	X					
(b) (6) well			1055			1	X					
BA - 01A			1321			1	X					
BA - 01			1402			2	X	X	2			
DW - 03			1440			1	X					
PW - 04			1503			1	X					
DW - 02			1532			1	X					
BA - 05			1624			1	X					
Turnaround Time (Business days)		Data Deliverable Information				Comments / Special Instructions						
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 6 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM): Date: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> Emergency & Rush T/A data available VIA LabLink				<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C"				<input type="checkbox"/> TRRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____	*Total Metals: As, Cd, Pb, Mn, Ni, Th, Zn **Dissolved Metals (Field Filtered): As, Cd, Pb, Mn, Ni, Th, Zn	
						Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC & Surrogate Summary				Received at Baton Rouge Service Center		
Sample Custody must be documented below each time samples change possession, including courier delivery.												
Relinquished by Sampler: Maggie Shaw	Date/Time: 2/21/13 1455	Received By: 1	Relinquished By: 2	Date/Time: 2/22	Received By: 2							
Relinquished by Sampler: Tenee Sam	Date/Time: 2/22 1430	Received By: 3	Relinquished By: 4	Date/Time:	Received By: 4							
Relinquished by: 5	Date/Time:	Received By: 5	Custody Seal #: 	<input type="checkbox"/> intact	Preserved where applicable					On Ice: <input type="checkbox"/>	Cooler Temp: <input type="checkbox"/>	



CHAIN OF CUSTODY

Accutest Gulf Coast/SPL Environmental
 500 Ambassador Caffery Pkwy Scott, LA 70383
 TEL: 337-237-4775 FAX: 337-237-7838
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Client / Reporting Information		Project Information		P&D-EX Tracking #		Bottle Order Control #																			
				Accutest Quote #		Accutest Job #																			
Company Name SEMS-Metairie		Project Name: Delatte Metals Superfund Site																							
Street Address 3801 N. Causeway Blvd. Suite 209		Street Ponchatoula		Billing Information (if different from Report to)																					
City Metairie	State LA	Zip 70002	City Ponchatoula	State LA	Company Name																				
Project Contact Nick Rodehorst Phone # 504-451-8083		Project # 207-0016		Street Address																					
E-mail nrodehorst@semsinc.net		Client Purchase Order #		City State Zip																					
Phone # 504-451-8083		Project Manager		Attention:																					
Sampler(s) Name(s) NICK RODEHORST E, Maghee Shaw		Phone #																							
Accutest Sample #		Collection		Number of preserved bottles																					
Field ID / Point of Collection		Date	Time	Sampled By	# of bottles	HCl	NaOH	ZnSO4	HNO3	H2SO4	None	DI Water	MEOH	TSP	NaHSO4	ENOCRE	OTHER	Total Metals*	Dissolved Metals**	LAB USE ONLY					
BA - 05A		2/20/13	1708	NR/MS	W	1	X											X	X	1					
MW - A			1740		W	1	X											X	X	1					
DW - 01		↓	1820		W	2	X											X	X	2					
MW - 01		2/21/13	818		W	1	X											X	X	1					
BA - 03A		↓	853		W	1	X											X	X	1					
BA - 03		↓	911		W	1	X											X	X	1					
MW - 02		↓	928		W	1	X											X	X	1					
DUPLICATE #1		2/19/13	—		W	1	X											X	X	1					
DUPLICATE #2		2/19/13	—		W	1	X											X	X	1					
DUPLICATE #3		2/20/13	—		W	1	X											X	X	1					
DUPLICATE #4		2/20/13	—		W	1	X											X	X	1					
M5 BC-212		2/19/13	1039	↓	W	1	X											X	X	1					
Turnaround Time (Business days)		Data Deliverable Information																		Comments / Special Instructions					
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM): / Date:		<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C"		<input type="checkbox"/> TRRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____		*Total Metals: As, Cd, Pb, Mn, Ni, Th, Zn **Dissolved Metals (Field Filtered): As, Cd, Pb, Mn, Ni, Th, Zn Received at Baton Rouge Service Center																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																									
Relinquished by Sample # 1 Maghee Shaw	Date Time: 02/21/13 1455	Received By: 2	Relinquished By: 2	Date Time: 2/22	Received By: 2 Renee Sam																				
Relinquished by Sample # 3 Renee Sam	Date Time: 2/22/13 1430	Received By: 3 Renee Sam	Relinquished By: 4	Date Time: 2/22	Received By: 4																				
Relinquished by: 5	Date Time: 5	Received By: 5	Custody Seal #: <input type="checkbox"/> intact <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> Not intact <input type="checkbox"/>	On Ice: <input type="checkbox"/>	Cooler Temp: <input type="checkbox"/>																				



CHAIN OF CUSTODY

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Client / Reporting Information		Project Information		Requested Analyses		Matrix Codes														
Company Name: SEMS-Metairie		Project Name: Delatte Metals Superfund Site																		
Street Address: 3801 N. Causeway Blvd. Suite 209		Street:																		
City Metairie	State LA	Zip 70002	City Ponchatoula	State LA																
Project Contact: Nick Rodehorst		E-mail: nrodehorst@semsinc.net		Billing Information (if different from Report to)																
Phone # 504-451-8083		Fax #		Company Name:																
Sampler(s) Name(s) NICK RODEHORST AND MARGARET STRAIN		Phone #		Street Address:																
Project Purchase Order # 207-0016		City Ponchatoula		State LA	Zip 70002															
Project Manager: NICK RODEHORST AND MARGARET STRAIN		Attention:																		
Field ID / Point of Collection		Collection		Number of preserved bottles																
AccuTest Sample #	Date BC - 21R MSD	Time 10:39	Sampled By NR/MS	Matrix W	# of bottles 1	HCl <input checked="" type="checkbox"/>	NaOH <input type="checkbox"/>	ZnSO4 <input type="checkbox"/>	HNO3 <input type="checkbox"/>	H2SO4 <input type="checkbox"/>	NONE <input type="checkbox"/>	DI Water <input type="checkbox"/>	MEOH <input type="checkbox"/>	Tsp <input type="checkbox"/>	NaHSO4 <input type="checkbox"/>	ENCORE <input type="checkbox"/>	OTHER <input type="checkbox"/>	Total Metals* <input checked="" type="checkbox"/>	Dissolved Metals** <input checked="" type="checkbox"/>	LAB USE ONLY <input type="checkbox"/>
	RA - 05 MS	2/20/13	1024	↓	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	RA - 05 MSD	2/20/13	1024	↓	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Turnaround Time (Business days)		Data Deliverable Information		Comments / Special Instructions																
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY		Approved By (AccuTest PM): / Date: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C"		<input type="checkbox"/> TRRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____		Total Metals: As, Cd, Pb, Mn, Ni, Th, Zn Dissolved Metals (Field Filtered): As, Cd, Pb, Mn, Ni, Th, Zn												
								Received at Baton Rouge												
								Service Center												
Sample Custody must be documented below each time samples change possession, including courier delivery.																				
1	Reinquished by Sampler: Margaret Strain	Date Time: 2/21/13 1455	Received By: 1	Reinquished By: 2	Date Time: 2122	Received By: 2	Reinquished by Sampler: Renée Sam	Date Time: 2/22/13 1430	Received By: 3	Reinquished By: 4	Date Time: 2122	Received By: 4	Custody Seal # NOCS	Intact <input checked="" type="checkbox"/>	Not Intact <input type="checkbox"/>	Preserved where applicable <input checked="" type="checkbox"/>	On Ice <input checked="" type="checkbox"/>	Cooler Temp. 75 3.5		
5	Reinquished by Sampler:	Date Time:	Received By:	Reinquished By:	Date Time:	Received By:	Reinquished by Sampler:	Date Time:	Received By:	Reinquished By:	Date Time:	Received By:	Custody Seal #	Intact	Not Intact	Preserved where applicable	On Ice	Cooler Temp.		

Sample Summary

Accutest SPL Lafayette

Job No: JB29805

SEMS Incorporated, Delatte Metals Superfund, LA
Project No: L0026284

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB29805-1	02/18/13	09:29	02/26/13	AQ	Water	BC-07
JB29805-2	02/18/13	10:31	02/26/13	AQ	Water	DW-04
JB29805-3	02/18/13	10:54	02/26/13	AQ	Water	BC-19
JB29805-4	02/18/13	11:52	02/26/13	AQ	Water	BC-25
JB29805-5	02/18/13	12:23	02/26/13	AQ	Water	MW-3
JB29805-6	02/18/13	13:25	02/26/13	AQ	Water	MW-6
JB29805-7	02/18/13	14:16	02/26/13	AQ	Water	SOUTH WELL
JB29805-8	02/19/13	09:04	02/26/13	AQ	Water	BB-01
JB29805-9	02/19/13	09:35	02/26/13	AQ	Water	BC-17
JB29805-10	02/19/13	10:08	02/26/13	AQ	Water	NORTH WELL
JB29805-11	02/19/13	10:39	02/26/13	AQ	Water	BC-21R
JB29805-11D	02/19/13	10:39	02/26/13	AQ	Water Dup/MSD	BC-21R
JB29805-11S	02/19/13	10:39	02/26/13	AQ	Water Matrix Spike	BC-21R

Sample Summary (continued)

Accutest SPL Lafayette

Job No: JB29805

SEMS Incorporated, Delatte Metals Superfund, LA
Project No: L0026284

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB29805-12	02/19/13	11:38	02/26/13	AQ	Water	BA-09
JB29805-13	02/19/13	12:26	02/26/13	AQ	Water	BA-09A
JB29805-14	02/19/13	13:20	02/26/13	AQ	Water	WW-09
JB29805-15	02/19/13	14:31	02/26/13	AQ	Water	MW-04
JB29805-16	02/20/13	10:11	02/26/13	AQ	Water	BC-03
JB29805-17	02/20/13	10:46	02/26/13	AQ	Water	WW-04
JB29805-18	02/20/13	10:55	02/26/13	AQ	Water	(b) (6) WELL
JB29805-19	02/20/13	13:21	02/26/13	AQ	Water	BA-01A
JB29805-20	02/20/13	14:02	02/26/13	AQ	Water	BA-01
JB29805-20F	02/20/13	14:02	02/26/13	AQ	Water Filtered	BA-01
JB29805-22	02/20/13	14:40	02/26/13	AQ	Water	DW-03
JB29805-23	02/20/13	15:03	02/26/13	AQ	Water	PW-04
JB29805-24	02/20/13	15:32	02/26/13	AQ	Water	DW-02

Sample Summary (continued)

Accutest SPL Lafayette

Job No: JB29805

SEMS Incorporated, Delatte Metals Superfund, LA
Project No: L0026284

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB29805-25	02/20/13	16:24	02/26/13	AQ	Water	BA-05
JB29805-25D	02/20/13	16:24	02/26/13	AQ	Water Dup/MSD	BA-05
JB29805-25S	02/20/13	16:24	02/26/13	AQ	Water Matrix Spike	BA-05
JB29805-26	02/20/13	17:08	02/26/13	AQ	Water	BA-05A
JB29805-27	02/20/13	17:40	02/26/13	AQ	Water	MW-A
JB29805-28	02/20/13	18:20	02/26/13	AQ	Water	DW-01
JB29805-28F	02/20/13	18:20	02/26/13	AQ	Water Filtered	DW-01
JB29805-30	02/21/13	08:18	02/26/13	AQ	Water	MW-01
JB29805-31	02/21/13	08:53	02/26/13	AQ	Water	BA-03A
JB29805-32	02/21/13	09:11	02/26/13	AQ	Water	BA-03
JB29805-33	02/21/13	09:28	02/26/13	AQ	Water	MW-02
JB29805-34	02/19/13	00:00	02/26/13	AQ	Water	DUPLICATE #1
JB29805-35	02/19/13	00:00	02/26/13	AQ	Water	DUPLICATE #2

Sample Summary
(continued)

Accutest SPL Lafayette

Job No: JB29805

SEMS Incorporated, Delatte Metals Superfund, LA
Project No: L0026284

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB29805-36	02/20/13	00:00	02/26/13	AQ	Water	DUPLICATE #3
JB29805-37	02/20/13	00:00	02/26/13	AQ	Water	DUPLICATE #4

Report of Analysis

Page 1 of 1

Client Sample ID:	BC-07	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-1	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	11.8	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DW-04	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-2	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

 RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BC-19	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-3	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13	VC	SW846 6020A ¹
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/07/13	VC	SW846 6020A ¹
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13	VC	SW846 6020A ¹
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	BC-25	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-4	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	217	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

(1) Instrument QC Batch: MA30654

(2) Instrument QC Batch: MA30657

(3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-3	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-5	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13	VC	SW846 6020A ¹
Lead	1.1	1.0	ug/l	2	03/01/13	03/07/13	VC	SW846 6020A ¹
Manganese	419	10	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13	VC	SW846 6020A ¹
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-6	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-6	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	30.7	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	2460	50	ug/l	50	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Nickel	22.7	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	77.7	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

 RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	SOUTH WELL	Date Sampled:	02/18/13
Lab Sample ID:	JB29805-7	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	BB-01	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-8	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	5.3	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

 RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BC-17	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-9	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	15.5	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	60.5	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	NORTH WELL	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-10	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BC-21R	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-11	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 1.0	1.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²
Manganese	57.5	2.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²
Nickel	< 2.0	2.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²
Zinc	4.0	4.0	ug/l	2	03/01/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ²

(1) Instrument QC Batch: MA30622

(2) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BA-09	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-12	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	34.2	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	1.3	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	3580	50	ug/l	50	03/01/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Nickel	157	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	231	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BA-09A	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-13	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	30.9	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	WW-09	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-14	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	17.9	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	MW-04	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-15	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13	VC	SW846 6020A ¹
Lead	3.6	1.0	ug/l	2	03/01/13	03/08/13	VC	SW846 6020A ¹
Manganese	62.8	10	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13	VC	SW846 6020A ¹
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BC-03	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-16	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	WW-04	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-17	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

 RL = Reporting Limit

Report of Analysis

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Client Sample ID:	(b) (6)	WELL	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-18		Date Received:	02/26/13
Matrix:	AQ - Water		Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA			

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	1.2	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	24.3	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel	< 10	10	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/01/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	10	03/01/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70113

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BA-01A	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-19	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	8.5	5.0	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese ^a	12.3	10	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel ^a	< 10	10	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc ^a	< 20	20	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BA-01	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-20	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	1320	50	ug/l	50	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Nickel ^a	39.7	10	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc ^a	92.3	20	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	BA-01	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-20F	Date Received:	02/26/13
Matrix:	AQ - Water Filtered	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	6.9	5.0	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	1.1	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	1400	50	ug/l	50	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Nickel ^a	39.1	10	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc ^a	52.5	20	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	DW-03	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-22	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	35.6	5.0	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Cadmium	2.9	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	32.1	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese	4660	50	ug/l	50	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Nickel ^a	171	10	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc ^a	257	20	ug/l	10	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	PW-04	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-23	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	2.1	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	1.3	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese	1640	50	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹
Nickel ^a	32.1	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	82.5	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	DW-02	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-24	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	75.8	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	43.3	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	53.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese	16200	50	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹
Nickel ^a	668	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc	2130	100	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	BA-05	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-25	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.5	1.0	ug/l	2	03/04/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ³
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ³
Lead	< 1.0	1.0	ug/l	2	03/04/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ³
Manganese ^a	17700	50	ug/l	50	03/04/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ³
Nickel ^a	78.5	10	ug/l	10	03/04/13	03/09/13 VC	SW846 6020A ²	SW846 3010A ³
Thallium	1.3	1.0	ug/l	2	03/04/13	03/06/13 VC	SW846 6020A ¹	SW846 3010A ³
Zinc ^a	< 20	20	ug/l	10	03/04/13	03/09/13 VC	SW846 6020A ²	SW846 3010A ³

(1) Instrument QC Batch: MA30634

(2) Instrument QC Batch: MA30657

(3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	BA-05A	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-26	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese ^a	14.4	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	< 10	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	< 20	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-A	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-27	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese ^a	< 10	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	< 10	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	< 20	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DW-01	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-28	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	236	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	45.8	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	15.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese	13800	50	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹
Nickel ^a	59.7	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	356	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DW-01	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-28F	Date Received:	02/26/13
Matrix:	AQ - Water Filtered	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	207	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	49.4	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	16.4	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese	15900	50	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹
Nickel ^a	64.2	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	388	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

(1) Instrument QC Batch: MA30654

(2) Instrument QC Batch: MA30657

(3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-01	Date Sampled:	02/21/13
Lab Sample ID:	JB29805-30	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	70.8	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	6.9	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	9.5	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese	7270	50	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹
Nickel ^a	263	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	309	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

(1) Instrument QC Batch: MA30654

(2) Instrument QC Batch: MA30657

(3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	BA-03A	Date Sampled:	02/21/13
Lab Sample ID:	JB29805-31	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	2.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese ^a	39.4	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	< 10	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	< 20	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
								SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	BA-03	Date Sampled:	02/21/13
Lab Sample ID:	JB29805-32	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	69.9	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	76.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese	1800	50	ug/l	50	03/04/13	03/07/13	VC	SW846 6020A ¹
Nickel ^a	53.5	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	242	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-02	Date Sampled:	02/21/13
Lab Sample ID:	JB29805-33	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	45.7	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	2.5	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese ^a	621	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	52.5	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	197	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DUPLICATE #1	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-34	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Lead	6.6	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Manganese ^a	< 10	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	< 10	10	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/04/13	03/07/13	VC	SW846 6020A ¹
Zinc ^a	< 20	20	ug/l	10	03/04/13	03/08/13	VC	SW846 6020A ²
								SW846 3010A ³

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70171

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DUPLICATE #2	Date Sampled:	02/19/13
Lab Sample ID:	JB29805-35	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/05/13	03/08/13	VC	SW846 6020A ¹
Lead	< 1.0	1.0	ug/l	2	03/05/13	03/08/13	VC	SW846 6020A ¹
Manganese ^a	24.2	10	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	< 10	10	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²
Thallium ^a	< 5.0	5.0	ug/l	10	03/05/13	03/11/13	VC	SW846 6020A ³
Zinc ^a	< 20	20	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Instrument QC Batch: MA30668
 (4) Prep QC Batch: MP70188

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DUPLICATE #3	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-36	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²
Cadmium	< 1.0	1.0	ug/l	2	03/05/13	03/08/13	VC	SW846 6020A ¹
Lead	< 1.0	1.0	ug/l	2	03/05/13	03/08/13	VC	SW846 6020A ¹
Manganese ^a	< 10	10	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²
Nickel ^a	< 10	10	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²
Thallium	< 1.0	1.0	ug/l	2	03/05/13	03/08/13	VC	SW846 6020A ¹
Zinc ^a	< 20	20	ug/l	10	03/05/13	03/08/13	VC	SW846 6020A ²

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Prep QC Batch: MP70188

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	DUPLICATE #4	Date Sampled:	02/20/13
Lab Sample ID:	JB29805-37	Date Received:	02/26/13
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	SEMS Incorporated, Delatte Metals Superfund, LA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 5.0	5.0	ug/l	10	03/05/13	03/08/13 VC	SW846 6020A ²	SW846 3010A ⁴
Cadmium	< 1.0	1.0	ug/l	2	03/05/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ⁴
Lead	< 1.0	1.0	ug/l	2	03/05/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ⁴
Manganese	10.9	10	ug/l	10	03/05/13	04/25/13 VC	SW846 6020A ³	SW846 3010A ⁴
Nickel	< 10	10	ug/l	10	03/05/13	04/25/13 VC	SW846 6020A ³	SW846 3010A ⁴
Thallium	< 1.0	1.0	ug/l	2	03/05/13	03/08/13 VC	SW846 6020A ¹	SW846 3010A ⁴
Zinc	< 20	20	ug/l	10	03/05/13	04/25/13 VC	SW846 6020A ³	SW846 3010A ⁴

- (1) Instrument QC Batch: MA30654
 (2) Instrument QC Batch: MA30657
 (3) Instrument QC Batch: MA31047
 (4) Prep QC Batch: MP70188

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest, Inc.
500 Ambassador Caffery Parkway

Scott, LA 70583-8544
(337) 237-4775

Subcontractor: **VICKY PUSHKOVA**
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

TEL: (732) 329-0200
FAX: (732) 329-3499

Company: SEMS, INC
Project Manager: Jackson, Amy K
Project Name: 207-0016
QCLevel: LVL4
Requested State: Louisiana

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JB 29805

DAYTON, NJ 08810

Acc #: _____

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	Requested Tests					
					SW3005	SW3010A	SW6020			
L0026284-01A	- 1	BC-07	Water	02/18/13 9:29	03/07/13			1		
L0026284-01A		BC-07	Water	02/18/13 9:29	02/28/13		1			
L0026284-02A	- 2	DW-04	Water	02/18/13 10:31	03/07/13			1		
L0026284-02A		DW-04	Water	02/18/13 10:31	02/28/13		1			
L0026284-03A	- 3	BC-19	Water	02/18/13 10:54	03/07/13			1		
L0026284-03A		BC-19	Water	02/18/13 10:54	02/28/13		1			
L0026284-04A	- 4	BC-25	Water	02/18/13 11:52	03/07/13			1		
L0026284-04A		BC-25	Water	02/18/13 11:52	02/28/13		1			
L0026284-05A	- 5	MW-3	Water	02/18/13 12:23	03/07/13			1		
L0026284-05A		MW-3	Water	02/18/13 12:23	02/28/13		1			
L0026284-05A	- 6	MW-6	Water	02/18/13 13:25	03/07/13			1		
L0026284-05A		MW-6	Water	02/18/13 13:25	02/28/13		1			
L0026284-07A	- 7	SOUTH WELL	Water	02/18/13 14:16	03/07/13			1		
L0026284-07A		SOUTH WELL	Water	02/18/13 14:16	02/28/13		1			
L0026284-08A	- 8	BB-01	Water	02/19/13 9:04	03/07/13			1		
L0026284-08A		BB-01	Water	02/19/13 9:04	02/28/13		1			
L0026284-09A	- 9	BC-17	Water	02/19/13 9:35	03/07/13			1		
L0026284-09A		BC-17	Water	02/19/13 9:35	02/28/13		1			

Comments: TOTAL/DISSOLVED METALS - SEE ATTACHED LIST REPORT IN MG/L. PROVIDE TERRABASE EDD WITH FINAL REPORT, & FULL T1 REPORT - Please contact Amy Jackson for questions (800-304-5227). Please issue a full PDF report by e-mail (including COC documentation) to amyj@accutest.com.

See Attached

CHCEKED FEB 25 2013

Date/Time	Date/Time
Relinquished by: <i>Cherry</i>	Received by: <i>Felix</i>
Relinquished by: <i>Patty</i>	Received by: <i>Stacy</i>
2/26/13 10:30	2/26/13 10:30
ALL SAMPLES RECEIVED PRESERVED AS APPLIC	
DU TCG 1.0	

JB

JB29805: Chain of Custody
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Accutest, Inc.
500 Ambassador Caffery Parkway

Scott, LA 70583-8544
(337) 237-4775

Subcontractor: VICKY PUSHKOVA
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

DAYTON, NJ 08810

CHAIN-OF-CUSTODY RECORD

Page 2 of 5

Company: SEMS, INC
Project Manager: Jackson, Amy K
Project Name: 207-0016
QCLevel: LVL4
Requested State: Louisiana

JB 29805

TEL: (732) 329-0200
FAX: (732) 329-3499

Acct #:

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	Requested Tests				
					SW3005	SW3010A	SW6020		
L0026284-10A - 10	NORTH WELL	Water	02/19/13 10:08	03/07/13			1		
L0026284-10A	NORTH WELL	Water	02/19/13 10:08	02/28/13		1			
L0026284-11A - 11	BC-21R	Water	02/19/13 10:39	03/07/13			1		
L0026284-11A	BC-21R	Water	02/19/13 10:39	02/28/13		1			
L0026284-12A - 12	BA-09	Water	02/19/13 11:38	03/07/13			1		
L0026284-12A	BA-09	Water	02/19/13 11:38	02/28/13		1			
L0026284-13A - 13	BA-09A	Water	02/19/13 12:26	03/07/13			1		
L0026284-13A	BA-09A	Water	02/19/13 12:26	02/26/13		1			
L0026284-14A - 14	WW-09	Water	02/19/13 13:20	03/07/13			1		
L0026284-14A	WW-09	Water	02/19/13 13:20	02/28/13		1			
L0026284-15A - 15	MW-04	Water	02/19/13 14:31	03/07/13			1		
L0026284-15A	MW-04	Water	02/19/13 14:31	02/28/13		1			
L0026284-16A - 16	BC-03	Water	02/20/13 10:11	03/07/13			1		
L0026284-16A	BC-03	Water	02/20/13 10:11	02/28/13		1			
L0026284-17A - 17	WW-04	Water	02/20/13 10:46	03/07/13			1		
L0026284-17A	WW-04	Water	02/20/13 10:46	02/28/13		1			
L0026284-18A - 18	(b) (6) WELL	Water	02/20/13 10:55	03/07/13			1		
L0026284-18A	(b) (6) WELL	Water	02/20/13 10:55	02/28/13		1			

Comments: TOTAL/DISSOLVED METALS - SEE ATTACHED LIST REPORT IN MG/L. PROVIDE TERRABASE EDD WITH FINAL REPORT. & FULL TI REPORT - Please contact Amy Jackson for questions (800-304-5227). Please issue a full PDF report by e-mail (including COC documentation) to amyj@accutest.com.

(Signature)
CHECKED FEB 25 2013

Relinquished by:	<i>Amye</i>	Date/Time:	<i>2/27/13</i>	Received by:	<i>FedEx</i>	Date/Time:	<i>2/26/13 10:20</i>
Relinquished by:	<i>FedEx</i>			Received by:	<i>Shay</i>		

*ALL SAMPLES RECEIVED
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JB29805: Chain of Custody
Page 2 of 7

Accutest, Inc.
500 Ambassador Caffery Parkway

CHAIN-OF-CUSTODY RECORD

Page 3 of 5

Scott, LA 70583-8544
(337) 237-4775

Subcontractor: VICKY PUSHKOVA
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

TEL: (732) 329-0200
FAX: (732) 329-3499

Company: SEMS, INC.
Project Manager: Jackson, Amy K
Project Name: 207-0016
QCLevel: LVL4
Requested State: Louisiana

JB29805

DAYTON, NJ 08810

Acc#:

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	Requested Tests				
					SW3005	SW3010A	SW6020		
L0026284-19A - 19	BS-01A	Water	02/20/13 13:21	03/07/13			1		
L0026284-19A	BS-01A	Water	02/20/13 13:21	02/28/13		1			
L0026284-20A - 20	BA-01	Water	02/20/13 14:02	03/07/13			1		
L0026284-20A	BA-01	Water	02/20/13 14:02	02/28/13		1			
L0026284-20B - 21	BA-01	Water	02/20/13 14:02	03/07/13			1		
L0026284-20B	BA-01	Water	02/20/13 14:02	02/28/13	1				
L0026284-21A - 22	DW-03	Water	02/20/13 14:40	03/07/13			1		
L0026284-21A	DW-03	Water	02/20/13 14:40	02/28/13		1			
L0026284-22A - 23	PW-04	Water	02/20/13 15:03	03/07/13			1		
L0026284-22A	PW-04	Water	02/20/13 15:03	02/28/13		1			
L0026284-23A - 24	DW-02	Water	02/20/13 15:32	03/07/13			1		
L0026284-23A	DW-02	Water	02/20/13 15:32	02/28/13		1			
L0026284-24A - 25	BA-05	Water	02/20/13 16:24	03/07/13			1		
L0026284-24A	BA-05	Water	02/20/13 16:24	02/28/13		1			
L0026284-25A - 26	BA-05A	Water	02/20/13 17:08	03/07/13			1		
L0026284-25A	BA-05A	Water	02/20/13 17:08	02/28/13		1			
L0026284-26A - 27	MW-A	Water	02/20/13 17:40	03/07/13			1		
L0026284-26A	MW-A	Water	02/20/13 17:40	02/28/13		1			

Comments: TOTAL/DISSOLVED METALS - SEE ATTACHED LIST REPORT IN MG/L. PROVIDE TERRABASE EDD WITH FINAL REPORT, & FULL TI REPORT - Please contact Amy Jackson for questions (800-304-5227). Please issue a full PDP report by e-mail (including COC documentation) to amyj@accutest.com.

Amy
CHECKED FEB 25 2013

Relinquished by:	<i>Alceane</i>	Date/Time	<i>2/25</i>	Received by:	<i>FedEx</i>	Date/Time	<i>2/26/13 10:30</i>
Relinquished by:	<i>FedEx</i>		<i>2/26/13 10:30</i>	Received by:	<i>SJ</i>		<i>2/26/13 10:30</i>
<i>RELEASER IS RESPONSIBLE FOR RECEIVING AS APPROPRIATE</i>							

JB29805 570

JB29805: Chain of Custody

Page 3 of 7

Accutest, Inc.
500 Ambassador Caffery Parkway

Scott, LA 70583-R544
(337) 237-4775

Subcontractor: **VICKY PUSHKOVA**
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

DAYTON, NJ 08810

CHAIN-OF-CUSTODY RECORD

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JB 29805

Company SEMS, INC
Project Manager Jackson, Amy K
Project Name 207-0016
QCLevel LVL4
Requested State Louisiana

TEL: (732) 329-0200
FAX: (732) 329-3499

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	Requested Tests				
					SW3005	SW3010A	SW5020		
L0026284-27A	-28	DW-01	Water 02/20/13 18:20	03/07/13			1		
L0026284-27A		DW-01	Water 02/20/13 18:20	02/28/13		1			
L0026284-27B	-27F	DW-01	Water 02/20/13 18:20	03/07/13			1		
L0026284-27B		DW-01	Water 02/20/13 18:20	02/28/13	1				
L0026284-28A	-30	MW-01	Water 02/21/13 8:18	03/07/13			1		
L0026284-28A		MW-01	Water 02/21/13 8:18	02/28/13		1			
L0026284-29A	-31	BA-03A	Water 02/21/13 8:53	03/07/13			1		
L0026284-29A		BA-03A	Water 02/21/13 8:53	02/28/13		1			
L0026284-30A	-32	BA-03	Water 02/21/13 9:11	03/07/13			1		
L0026284-30A		BA-03	Water 02/21/13 9:11	02/28/13		1			
L0026284-31A	-33	MW-02	Water 02/21/13 9:28	03/07/13			1		
L0026284-31A		MW-02	Water 02/21/13 9:28	02/28/13		1			
L0026284-32A	-34	DUPLICATE #1	Water 02/19/13 0:00	03/07/13			1		
L0026284-32A		DUPLICATE #1	Water 02/19/13 0:00	02/28/13		1			
L0026284-33A	-35	DUPLICATE #2	Water 02/19/13 0:00	03/07/13			1		
L0026284-33A		DUPLICATE #2	Water 02/19/13 0:00	02/28/13		1			
L0026284-34A	-36	DUPLICATE #3	Water 02/20/13 0:00	03/07/13			1		
L0026284-34A		DUPLICATE #3	Water 02/20/13 0:00	02/28/13		1			

Comments: TOTAL/DISSOLVED METALS - SEE ATTACHED LIST REPORT IN MG/L, PROVIDE TERRABASE EDD WITH FINAL REPORT, & FULL TI REPORT - Please contact Amy Jackson for questions (800-304-5227). Please issue a full PDF report by e-mail (including COC documentation) to amyj@accutest.com.

④
CHECKED FEB 25 2013

Relinquished by:	<i>O'Reilly</i>	Date/Time	<i>2/25</i>	Received by:	<i>FedEx</i>	Date/Time	<i>2/26/13 10:22</i>
Relinquished by:	<i>FedEx</i>	<i>2/26/13 10:22</i>		Received by:	<i>Stahl</i>	<i>2/26/13 10:22</i>	

ALL SAMPLES RECEIVED
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JB29805: Chain of Custody
Page 4 of 7

Accutest, Inc.
500 Ambassador Caffery Parkway

Scott, LA 70583-8544
(337) 237-4775

Subcontractor: VICKY PUSHKOVA
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

DAYTON, NJ 08810

CHAIN-OF-CUSTODY RECORD

Page 5 of 5

Company: SEMS, INC.
Project Manager: Jackson, Amy K.
Project Name: 207-0016
QCLevel: LVL4
Requested State: Louisiana

JB29805

TEL: (732) 329-0200
FAX: (732) 329-3499

Acct #:

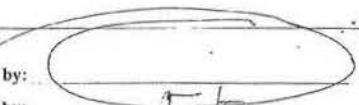
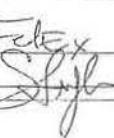
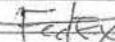
25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	Requested Tests				
					SW3005	SW3010A	SW6020		
L0026284-35A	-37 DUPLICATE #4	Water	02/20/13 0:00	03/07/13			1		
L0026284-35A	DUPLICATE #4	Water	02/20/13 0:00	02/28/13		1			

Comments: TOTAL/DISSOLVED METALS - SEE ATTACHED LIST REPORT IN MG/L. PROVIDE TERRABASE EDD WITH FINAL REPORT, & FULL TI REPORT -Please contact Amy Jackson for questions (800-304-5227). Please issue a full PDF report by e-mail (including COC documentation) to amyj@accutest.com.

(AD)

CHECKED-FEB 25 2013

Date/Time	Date/Time
Relinquished by: 	Received by: 
Relinquished by: 	Received by: 
2/21/13 10:32	2/21/13 10:32
ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE 	

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JB29805: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB29805

Client:

Project:

Date / Time Received: 2/26/2013

Delivery Method:

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1: (1/1); 0

Cooler Security	Y or N	Y or N
1 Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler Temperature	Y or N
1 Temp criteria achieved:	<input checked="" type="checkbox"/>
2. Cooler temp verification:	<input type="checkbox"/>
3. Cooler media:	Ice (Bag)
4 No Coolers:	1

Quality Control Preservation	Y or N	N/A
1 Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>

Comments

Sample Integrity - Documentation	Y or N
1 Sample labels present on bottles:	<input checked="" type="checkbox"/>
2 Container labeling complete:	<input checked="" type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>
Sample Integrity - Condition	Y or N
1 Sample recvd within HT:	<input checked="" type="checkbox"/>
2 All containers accounted for:	<input checked="" type="checkbox"/>
3 Condition of sample:	Intact
Sample Integrity - Instructions	Y or N
1 Analysis requested is clear:	<input checked="" type="checkbox"/>
2 Bottles received for unspecified tests	<input type="checkbox"/>
3 Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>
4 Compositing instructions clear:	<input type="checkbox"/>
5 Filtering instructions clear:	<input type="checkbox"/>

Accutest Laboratories
V:732 329 02002235 US Highway 130
F: 732.329.3499Dayton, New Jersey
www.accutest.com

JB29805: Chain of Custody

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Job Change Order: JB29805_3_26_2013

Requested Date:	3/26/2013	Received Date:	2/26/2013
Account Name:	Accutest SPL Lafayette	Due Date:	3/8/2013
Project	SEMS Incorporated, Delatte Metals Superfund,	Deliverable:	FULT1
CSR:	vickyp	TAT (Days):	14

=====

Sample #:	JB29805-22 thru -27	Change:
Dept:		Please revise samples IDs to match COC and
Dept:		re-issue the report.

=====

JB29805: Chain of Custody
Page 7 of 7

Above Changes Per: Amy Jackson Date: 3/26/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service.

Page 1 of 1

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB29805
Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70113
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 03/01/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	11	13		
Antimony	1.0	028	43		
Arsenic	1 0	044	35	0 080	<1 0
Barium	2 0	06	29		
Beryllium	1 0	008	061		
Boron	10	92	8		
Cadmium	1 0	008	13	0 00035	<1 0
Calcium	500	3 2	15		
Chromium	2.0	1	11		
Cobalt	1 0	008	11		
Copper	2 0	034	12		
Iron	50	1 3	7 8		
Lead	1 0	.01	026	0 .028	<1 0
Magnesium	500	39	6 7		
Manganese	2 0	04	15	0 17	<2 0
Molybdenum	2 0	15	25		
Nickel	2.0	1	21	0 15	<2 0
Potassium	500	3 8	17		
Selenium	1 0	06	3		
Silver	1 0	01	053		
Sodium	500	2 3	9 3		
Strontium	10	014	062		
Thallium	1 0	098	078	0 12	<1 0
Tin	10	056	11		
Titanium	2 0	062	22		
Vanadium	2 0	044	15		
Zinc	4 0	16	49	0 13	<4.0

Associated samples MP70113: JB29805-1, JB29805-2, JB29805-3, JB29805-4, JB29805-5, JB29805-6, JB29805-7, JB29805-8, JB29805-9, JB29805-10, JB29805-11, JB29805-12, JB29805-13, JB29805-14, JB29805-15, JB29805-16, JB29805-17, JB29805-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB29805
 Account: ALLA - Accutest SPL Lafayette
 Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70113
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 03/01/13

Metal	JB29805-11 Original MS	Spikelot MPIRW1	QC % Rec	QC Limits
-------	---------------------------	--------------------	-------------	--------------

Aluminum

Antimony

Arsenic 0 49 2130 2000 106.5 75-125

Barium

Beryllium

Boron

Cadmium 0 040 51.8 50 103.5 75-125

Calcium anr

Chromium anr

Cobalt

Copper

Iron anr

Lead 0 18 524 500 104.8 75-125

Magnesium anr

Manganese 57.5 577 500 103.9 75-125

Molybdenum

Nickel 1.4 498 500 99.3 75-125

Potassium anr

Selenium anr

Silver anr

Sodium anr

Strontium

Thallium 0 19 2020 2000 101.0 75-125

Tin

Titanium

Vanadium

Zinc 4.0 514 500 102.0 75-125

Associated samples MP70113: JB29805-1, JB29805-2, JB29805-3, JB29805-4, JB29805-5, JB29805-6, JB29805-7, JB29805-8, JB29805-9, JB29805-10, JB29805-11, JB29805-12, JB29805-13, JB29805-14, JB29805-15, JB29805-16, JB29805-17, JB29805-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB29805
 Account: ALLA - Accutest SPL Lafayette
 Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70113
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 03/01/13

Metal	JB29805-11 Original MSD	Spikelot MPIRW1	MSD % Rec	MSD RPD	QC Limit
-------	----------------------------	--------------------	--------------	------------	-------------

Aluminum

Antimony

Arsenic	0.49	2070	2000	103.5	2.9	20
---------	------	------	------	-------	-----	----

Barium

Beryllium

Boron

Cadmium	0.040	50.5	50	100.9	2.5	20
---------	-------	------	----	-------	-----	----

Calcium

Chromium

Cobalt

Copper

Iron

Lead	0.18	525	500	105.0	0.2	20
------	------	-----	-----	-------	-----	----

Magnesium

Manganese	57.5	561	500	100.7	2.8	20
-----------	------	-----	-----	-------	-----	----

Molybdenum

Nickel	1.4	488	500	97.3	2.0	20
--------	-----	-----	-----	------	-----	----

Potassium

Selenium

Silver

Sodium

Strontium

Thallium	0.19	2030	2000	101.5	0.5	20
----------	------	------	------	-------	-----	----

Tin

Titanium

Vanadium

Zinc	4.0	504	500	100.0	2.0	20
------	-----	-----	-----	-------	-----	----

Associated samples MP70113: JB29805-1, JB29805-2, JB29805-3, JB29805-4, JB29805-5, JB29805-6, JB29805-7, JB29805-8, JB29805-9, JB29805-10, JB29805-11, JB29805-12, JB29805-13, JB29805-14, JB29805-15, JB29805-16, JB29805-17, JB29805-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB29805

Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LAQC Batch ID: MP70113
Matrix Type: AQUEOUSMethods: SW846 6020A
Units: ug/l

Prep Date: 03/01/13

Metal	LCS Result	Spikelot MPLCW3	% Rec	QC Limits
-------	------------	-----------------	-------	-----------

Aluminum

Antimony

Arsenic 455 500 91.0 80-120

Barium anr

Beryllium

Boron

Cadmium 472 500 94.4 80-120

Calcium anr

Chromium anr

Cobalt

Copper

Iron anr

Lead 517 500 103.4 80-120

Magnesium anr

Manganese 510 500 102.0 80-120

Nickel 492 500 98.4 80-120

Potassium anr

Selenium anr

Silver anr

Sodium anr

Strontium

Thallium 491 500 98.2 80-120

Tin

Titanium

Vanadium

Zinc 442 500 88.4 80-120

Associated samples MP70113: JB29805-1, JB29805-2, JB29805-3, JB29805-4, JB29805-5, JB29805-6, JB29805-7, JB29805-8, JB29805-9, JB29805-10, JB29805-11, JB29805-12, JB29805-13, JB29805-14, JB29805-15, JB29805-16, JB29805-17, JB29805-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB29805
 Account: ALLA - Accutest SPL Lafayette
 Project: SEMS Incorporated, Delatte Metals Superfund, LA

OC Batch ID: MP70113
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 03/01/13

Metal	JB29805-11 Original SDL 2:10 %DIF	QC Limits
-------	--------------------------------------	--------------

Aluminum

Antimony

Arsenic 0 488 0 435 10.8 (a) 0-10

Barium anr

Beryllium

Boron

Cadmium 0 0397 0 00 100.0(a) 0-10

Calcium anr

Chromium anr

Cobalt

Copper

Iron anr

Lead 0 185 0 169 8.2 0-10

Magnesium anr

Manganese 57.5 67.5 17.4*(b) 0-10

Molybdenum

Nickel 1.41 1.71 21.5 (a) 0-10

Potassium anr

Selenium anr

Silver anr

Sodium anr

Strontium

Thallium 0 194 0 00 100.0(a) 0-10

Tin

Titanium

Vanadium

Zinc 3.99 4.62 15.7 (a) 0-10

Associated samples MP70113: JB29805-1, JB29805-2, JB29805-3, JB29805-4, JB29805-5, JB29805-6, JB29805-7, JB29805-8, JB29805-9, JB29805-10, JB29805-11, JB29805-12, JB29805-13, JB29805-14, JB29805-15, JB29805-16, JB29805-17, JB29805-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL)

(b) Serial dilution indicates possible matrix interference

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB29805
Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70171
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 03/04/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	11	13		
Antimony	1 0	.028	43		
Arsenic	1 0	.044	35	0 .093	<1 0
Barium	2 0	.06	29		
Beryllium	1 0	.008	.061		
Boron	10	.92	8		
Cadmium	1 0	.008	13	0 .0062	<1 0
Calcium	500	3 2	15		
Chromium	2 0	1	11		
Cobalt	1 0	.008	11		
Copper	2 0	.034	12		
Iron	50	1 .3	7 .8		
Lead	1 0	.01	026	0 .053	<1 .0
Magnesium	500	39	6 .7		
Manganese	2 0	.04	15	0 .30	<2 0
Molybdenum	2 0	15	25		
Nickel	2 0	1	21	0 .087	<2 0
Potassium	500	3 .8	17		
Selenium	1 0	.06	3		
Silver	1 0	.01	.053		
Sodium	500	2 .3	9 .3		
Strontium	10	.014	.062		
Thallium	1 .0	.098	.078	0 .029	<1 0
Tin	10	.056	11		
Titanium	2 .0	.062	22		
Vanadium	2 0	.044	15		
Zinc	4 0	16	49	0 .86	<4 .0

Associated samples MP70171: JB29805-19, JB29805-20, JB29805-22, JB29805-23, JB29805-24, JB29805-25, JB29805-26, JB29805-27, JB29805-28, JB29805-30, JB29805-31, JB29805-32, JB29805-33, JB29805-34, JB29805-20F, JB29805-28F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB29805

Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LAQC Batch ID: MP70171
Matrix Type: AQUEOUSMethods: SW846 6020A
Units: ug/l

Prep Date: 03/04/13

Metal	JB29805-25 Original MS	Spikelot MPIRWL	% Rec	QC Limits
-------	---------------------------	--------------------	-------	--------------

Aluminum

Antimony

Arsenic 2 5 1990 2000 99.4 75-125

Barium anr

Beryllium

Boron

Cadmium 0 020 44.4 50 88.8 75-125

Calcium anr

Chromium anr

Cobalt

Copper

Iron anr

Lead 0 20 523 500 104.6 75-125

Magnesium anr

Manganese 17700 18100 500 80.0 75-125

Molybdenum

Nickel 78.5 516 500 87.5 75-125

Potassium anr

Selenium

Silver

Sodium anr

Strontium

Thallium 1 3 1930 2000 96.4 75-125

Tin

Titanium

Vanadium

Zinc 5 2 437 500 86.4 75-125

Associated samples MP70171: JB29805-19, JB29805-20, JB29805-22, JB29805-23, JB29805-24, JB29805-25, JB29805-26, JB29805-27, JB29805-28, JB29805-30, JB29805-31, JB29805-32, JB29805-33, JB29805-34, JB29805-20F, JB29805-28F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB29805
 Account: ALLA - Accutest SPL Lafayette
 Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70171
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 03/04/13

Metal	JB29805-25 Original MSD	Spikelot MPIRW1	MSD % Rec	MSD RPD	QC Limit
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Aluminum

Antimony

Arsenic	2.5	1870	2000	93.4	6.2	20
---------	-----	------	------	------	-----	----

Barium	anr					
--------	-----	--	--	--	--	--

Beryllium

Boron

Cadmium	0.020	42.0	50	84.0	5.6	20
---------	-------	------	----	------	-----	----

Calcium	anr					
---------	-----	--	--	--	--	--

Chromium	anr					
----------	-----	--	--	--	--	--

Cobalt

Copper

Iron	anr					
------	-----	--	--	--	--	--

Lead	0.20	478	500	95.6	9.0	20
------	------	-----	-----	------	-----	----

Magnesium	anr					
-----------	-----	--	--	--	--	--

Manganese	17700	18100	500	80.0	0.0	20
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Molybdenum

Nickel	78.5	517	500	87.7	0.2	20
--------	------	-----	-----	------	-----	----

Potassium	anr					
-----------	-----	--	--	--	--	--

Selenium

Silver

Sodium	anr					
--------	-----	--	--	--	--	--

Strontium

Thallium	1.3	1790	2000	89.4	7.5	20
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Tin

Titanium

Vanadium

Zinc	5.2	427	500	84.4	2.3	20
------	-----	-----	-----	------	-----	----

Associated samples MP70171: JB29805-19, JB29805-20, JB29805-22, JB29805-23, JB29805-24, JB29805-25, JB29805-26, JB29805-27, JB29805-28, JB29805-30, JB29805-31, JB29805-32, JB29805-33, JB29805-34, JB29805-20F, JB29805-28F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB29805

Account: ALIA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LAQC Batch ID: MP70171
Matrix Type: AQUEOUSMethods: SW846 6020A
Units: ug/l

Prep Date: 03/04/13

Metal	LCS Result	Spikelot MPLCW3	% Rec	QC Limits
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Aluminum

Antimony

Arsenic 422 500 84.4 80-120

Barium anr

Beryllium

Boron

Cadmium 431 500 86.2 80-120

Calcium anr

Chromium anr

Cobalt

Copper

Iron anr

Lead 479 500 95.8 80-120

Magnesium anr

Manganese 478 500 95.6 80-120

Molybdenum

Nickel 448 500 89.6 80-120

Potassium anr

Selenium

Silver

Sodium anr

Strontium

Thallium 473 500 94.6 80-120

Tin

Titanium

Vanadium

Zinc 405 500 81.0 80-120

Associated samples MP70171: JB29805-19, JB29805-20, JB29805-22, JB29805-23, JB29805-24, JB29805-25, JB29805-26, JB29805-27, JB29805-28, JB29805-30, JB29805-31, JB29805-32, JB29805-33, JB29805-34, JB29805-20F, JB29805-28F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB29805
 Account: ALLA - Accutest SPL Lafayette
 Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70171
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 03/04/13

Metal	JB29805-25 Original SDL 2:10 %DIF	QC Limits
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Aluminum

Antimony

Arsenic 2.47 3.00 21.2*(a) 0-10

Barium anr

Beryllium

Boron

Cadmium 0.0202 0.00 100.0(b) 0-10

Calcium anr

Chromium anr

Cobalt

Copper

Iron anr

Lead 0.198 0.178 10.1 (b) 0-10

Magnesium anr

Manganese 17700 18500 4.6 0-10

Molybdenum

Nickel 78.5 77.7 1.0 0-10

Potassium anr

Selenium

Silver

Sodium anr

Strontium

Thallium 1.29 1.84 42.9 (b) 0-10

Tin

Titanium

Vanadium

Zinc 5.15 38.8 652.7(b) 0-10

Associated samples MP70171: JB29805-19, JB29805-20, JB29805-22, JB29805-23, JB29805-24, JB29805-25, JB29805-26, JB29805-27, JB29805-28, JB29805-30, JB29805-31, JB29805-32, JB29805-33, JB29805-34, JB29805-20F, JB29805-28F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.

(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JB29805
Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70188
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 03/05/13

Metal	RL	IDL	MDL	MB raw final	
Aluminum	50	11	13		
Antimony	1 0	.028	.43		
Arsenic	1 0	.044	.35	0 20	<1.0
Barium	2 0	.06	.29		
Beryllium	1 0	.008	.061		
Boron	10	.92	8		
Cadmium	1 0	.008	.13	0 0085	<1 0
Calcium	500	3 2	15		
Chromium	2 0	1	11		
Cobalt	1 0	.008	.11		
Copper	2 0	.034	.12		
Iron	50	1.3	7.8		
Lead	1 0	.01	.026	0 024	<1.0
Magnesium	500	39	6.7		
Manganese	2 0	.04	.15	0 077	<2 0
Molybdenum	2 0	15	25		
Nickel	2 0	1	.21	0 061	<2 0
Potassium	500	3 8	17		
Selenium	1 0	.06	.3		
Silver	1 0	.01	.053		
Sodium	500	2 3	9.3		
Strontium	10	.014	.062		
Thallium	1.0	.098	.078	0 22	<1.0
Tin	10	.056	.11		
Titanium	2 0	.062	.22		
Vanadium	2 0	.044	.15		
Zinc	4 0	16	49	1 6	<4 0

Associated samples MP70188: JB29805-35, JB29805-36, JB29805-37

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB29805

Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LAQC Batch ID: MP70188
Matrix Type: AQUEOUSMethods: SW846 6020A
Units: ug/l

Prep Date: 03/05/13

Metal	JB29965-6 Original MS	Spikelot MPIRW1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.63	1970	2000	98.5 75-125
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	0.16	46.7	50	93.1 75-125
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	0.28	474	500	94.7 75-125
Magnesium	anr			
Manganese	266	750	500	96.8 75-125
Molybdenum				
Nickel	5.9	455	500	89.8 75-125
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	1.8	1930	2000	96.4 75-125
Tin				
Titanium				
Vanadium	anr			
Zinc	6.0	493	500	97.4 75-125

Associated samples MP70188: JB29805-35, JB29805-36, JB29805-37

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JB29805

Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LAQC Batch ID: MP70188
Matrix Type: AQUEOUSMethods: SW846 6020A
Units: ug/l

Prep Date: 03/05/13

Metal	JB29965-6 Original MSD	Spikelot MPIRW1	MSD % Rec	MSD RPD	QC Limit
Aluminum	anr				
Antimony	anr				
Arsenic	0 63	1890	2000	94 5	4 1
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	0 16	45 4	50	90 5	2 8
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	0 28	468	500	93 5	1 3
Magnesium	anr				
Manganese	266	733	500	93 4	2 3
Molybdenum					
Nickel	5 9	443	500	87 4	2 7
Potassium	anr				
Selenium	anr				
Silver	anr				
Sodium	anr				
Strontium					
Thallium	1 8	1840	2000	91 9	4 8
Tin					
Titanium					
Vanadium	anr				
Zinc	6 0	484	500	95 6	1 8

Associated samples MP70188: JB29805-35, JB29805-36, JB29805-37

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JB29805

Account: ALLA - Accutest SPL Lafayette
Project: SEMS Incorporated, Delatte Metals Superfund, LAQC Batch ID: MP70188
Matrix Type: AQUEOUSMethods: SW846 6020A
Units: ug/l

Prep Date: 03/05/13

Metal	LCS Result	Spikelot MPLCW3	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	511	500	102.2	80-120
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	422	500	84.4	80-120
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	479	500	95.8	80-120
Magnesium	anr			
Manganese	509	500	101.8	80-120
Molybdenum				
Nickel	493	500	98.6	80-120
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	451	500	90.2	80-120
Tin				
Titanium				
Vanadium	anr			
Zinc	503	500	100.6	80-120

Associated samples MP70188: JB29805-35, JB29805-36, JB29805-37

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JB29805
 Account: ALLA - Accutest SPL Lafayette
 Project: SEMS Incorporated, Delatte Metals Superfund, LA

QC Batch ID: MP70188
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 03/05/13

Metal	JB29965-6			QC
	Original	SDL 2:10	%DIF	Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0 627	0 779	24 4 (a)	0-10
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	0 159	0 299	88 2 (a)	0-10
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	0 280	0 887	216 9(a)	0-10
Magnesium	anr			
Manganese	266	261	2 0	0-10
Molybdenum				
Nickel	5 92	6 05	2.1	0-10
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	1 76	2.21	25 9 (a)	0-10
Tin				
Titanium				
Vanadium	anr			
Zinc	5 99	4 25	29 0 (a)	0-10

Associated samples MP70188: JB29805-35, JB29805-36, JB29805-37

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL)

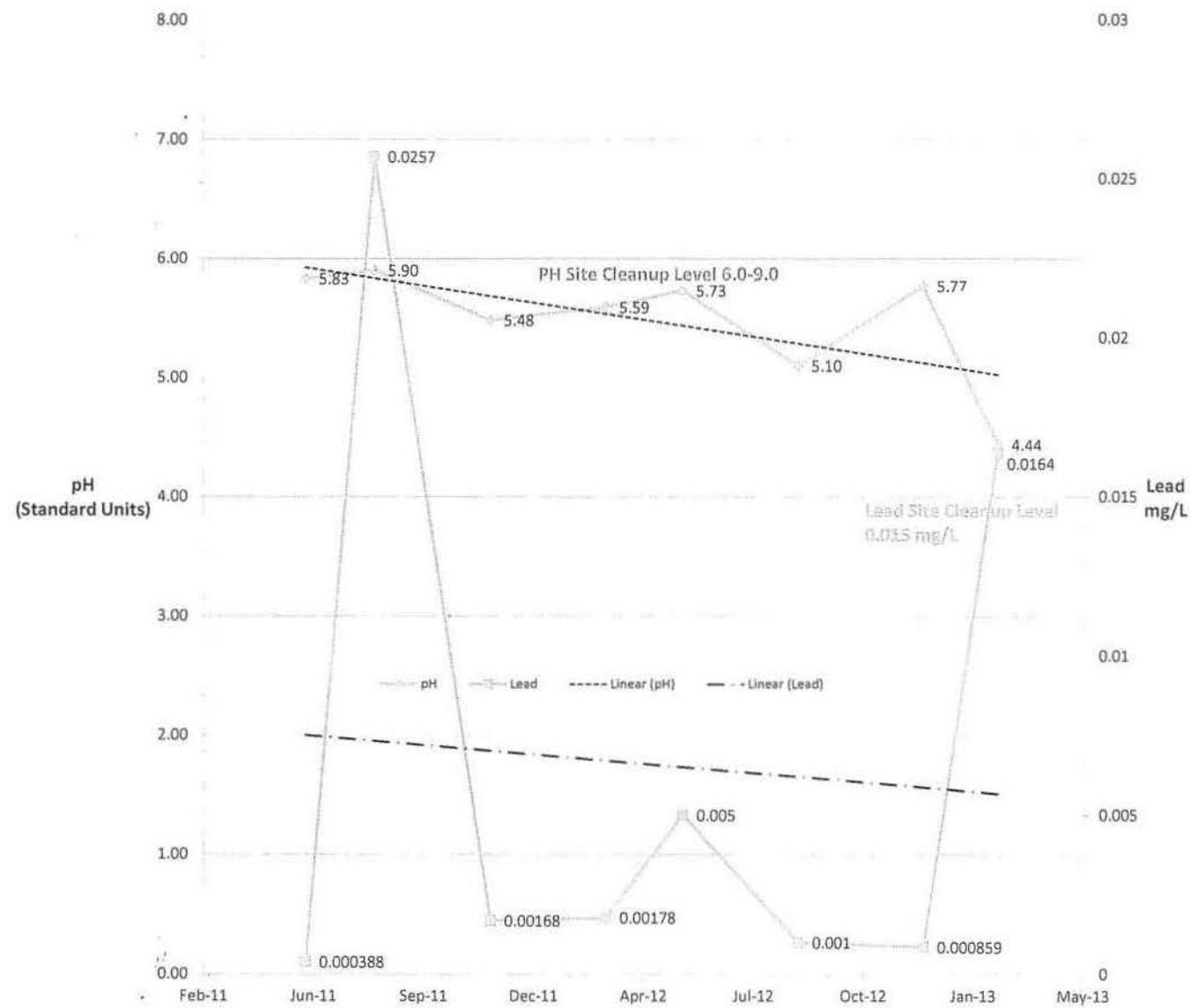
ATTACHMENT C

HISTORICAL CONCENTRATION
VS.
TIME GRAPHS

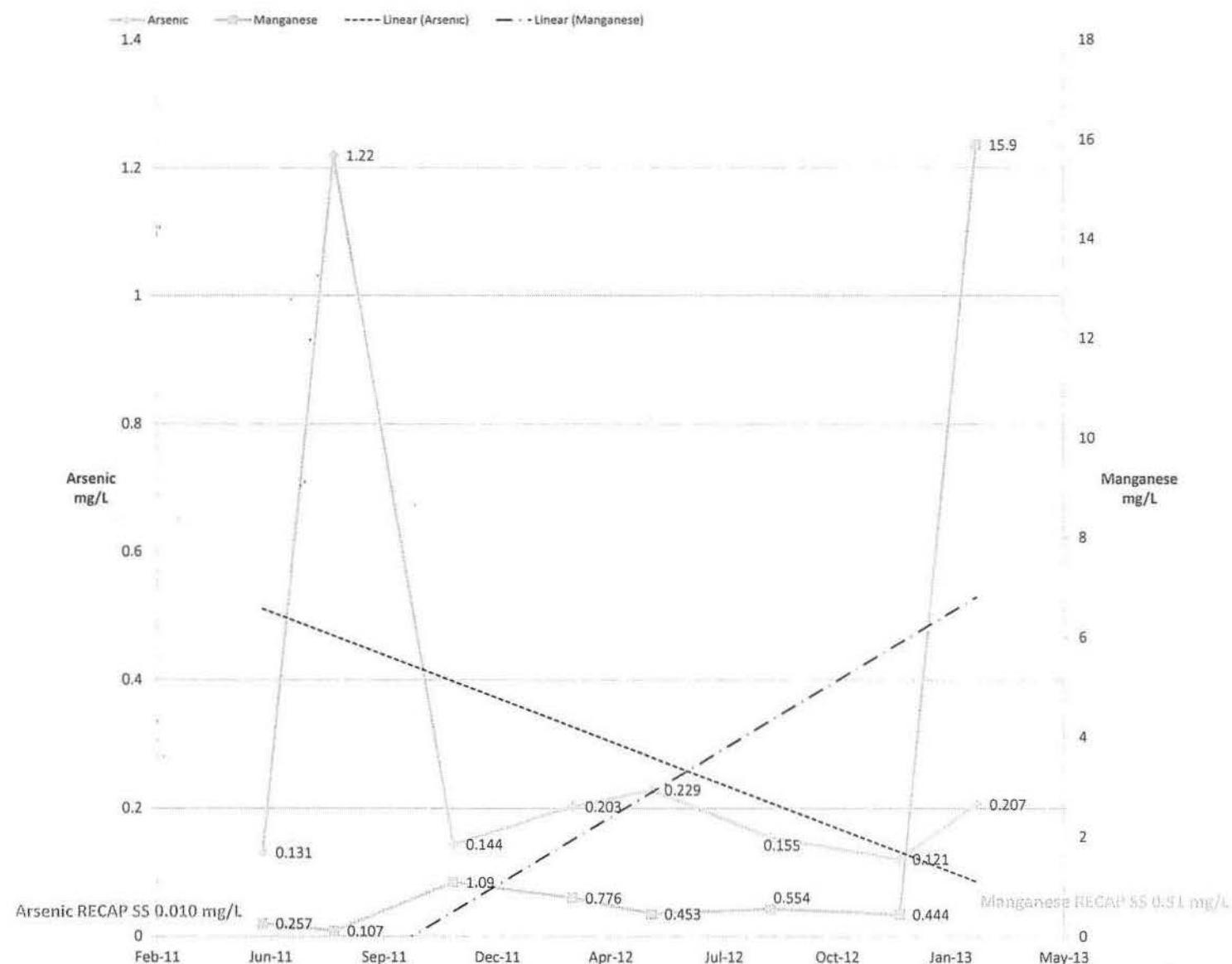
FIRST WATER BEARING ZONE

(PAST EIGHT QUARTERS)

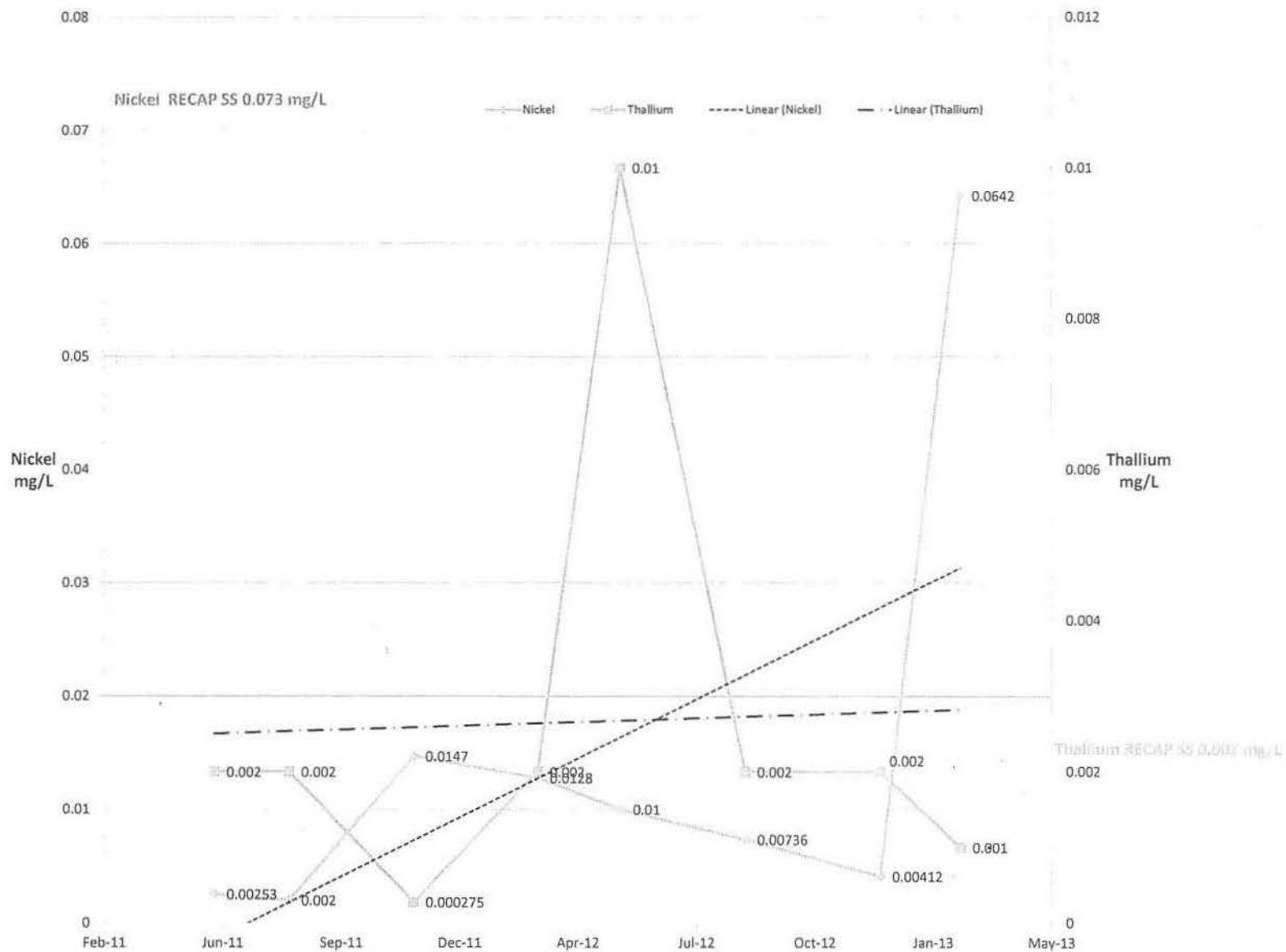
DW-1 pH and Lead



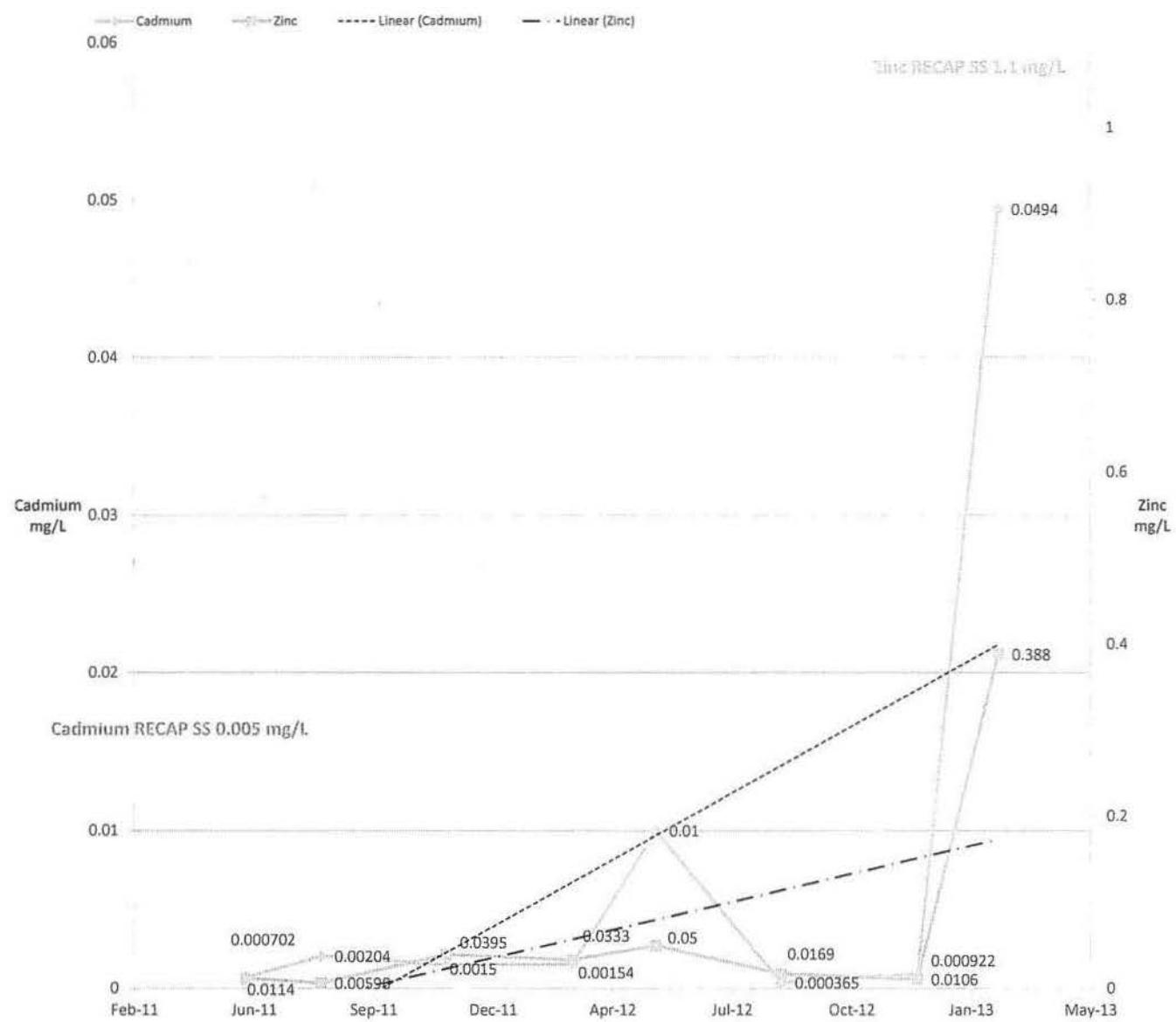
DW-1 Arsenic and Manganese



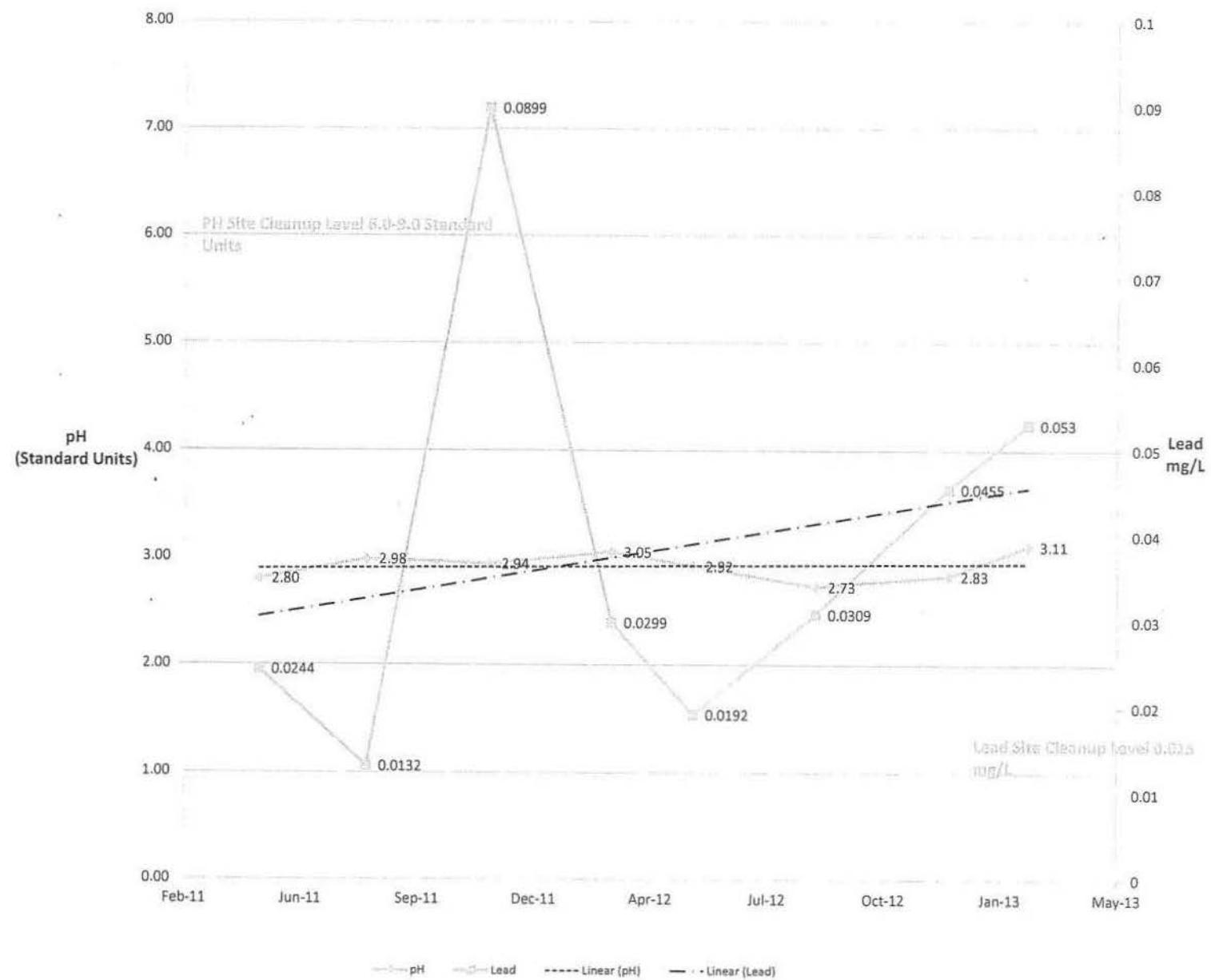
DW-1 Nickel and Thallium



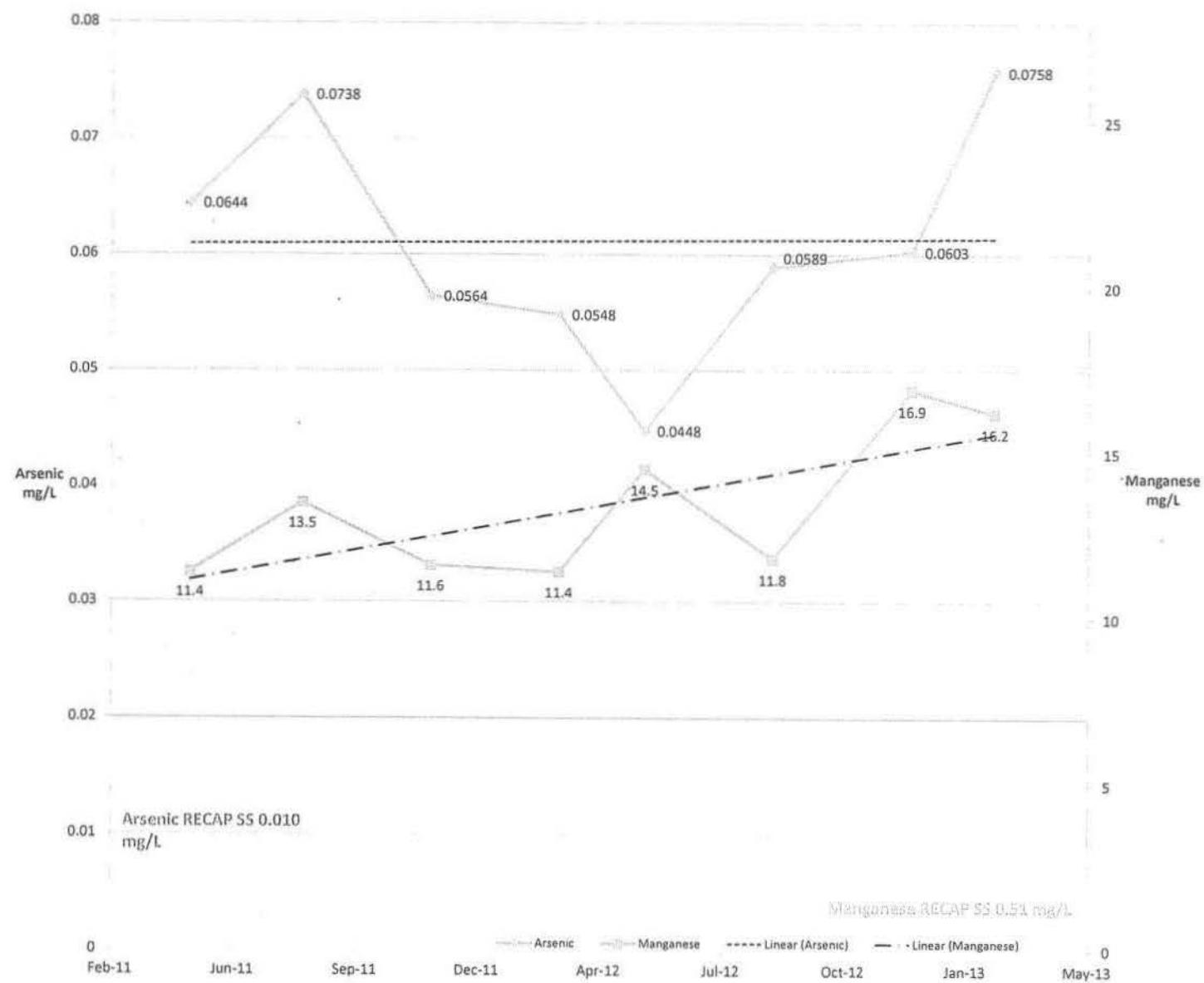
DW-1 Cadmium and Zinc



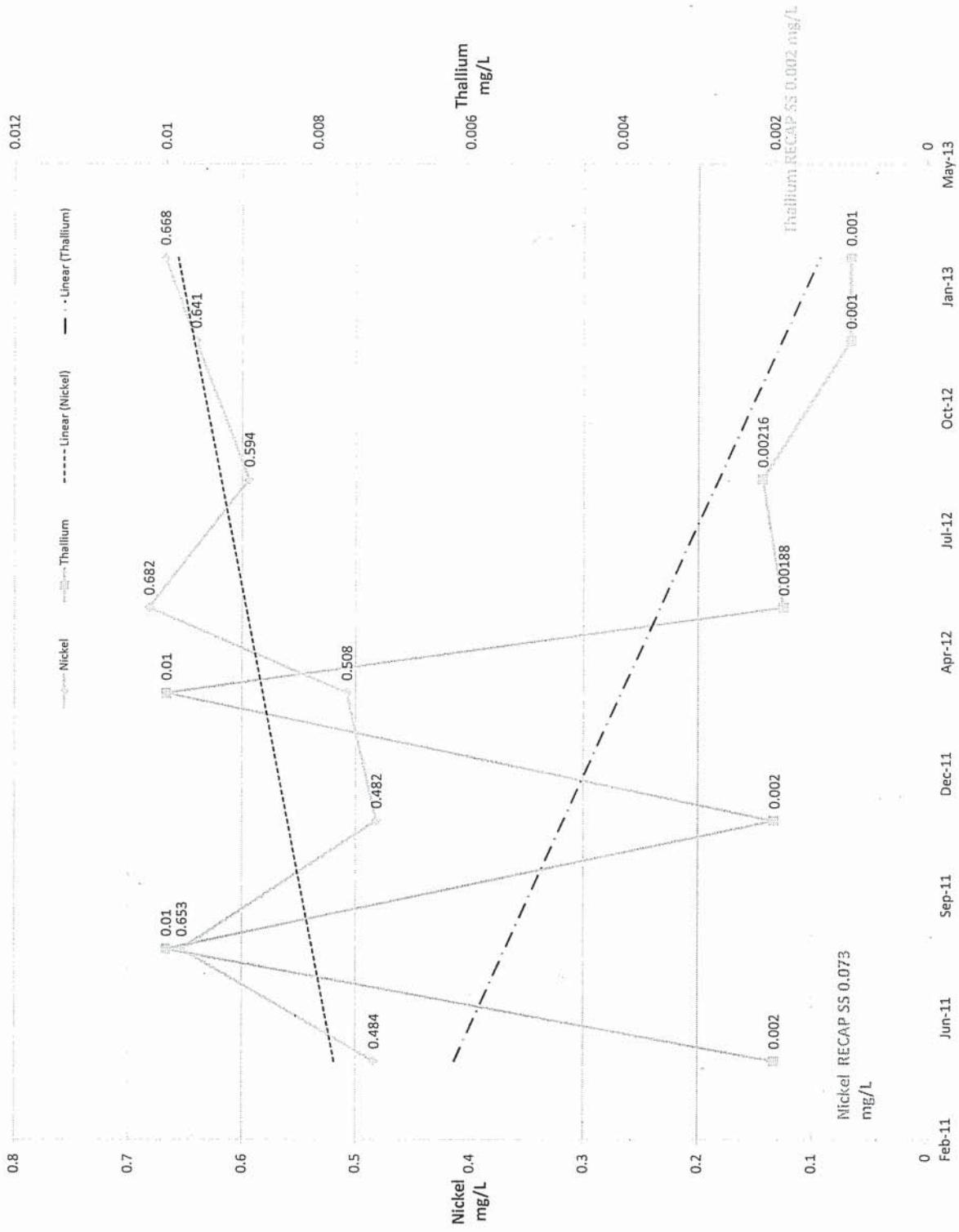
DW-2 pH and Lead



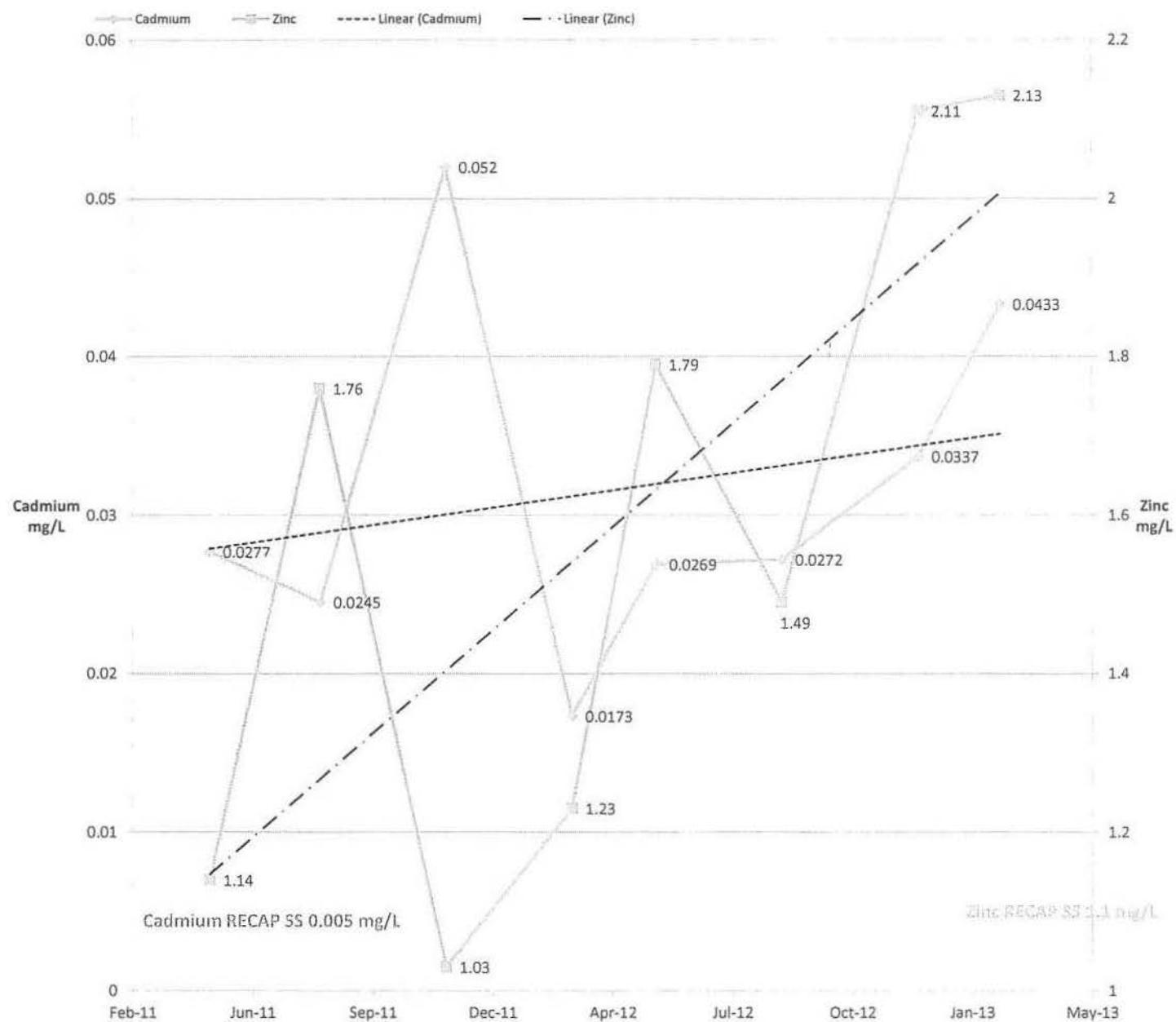
DW-2 Arsenic and Manganese



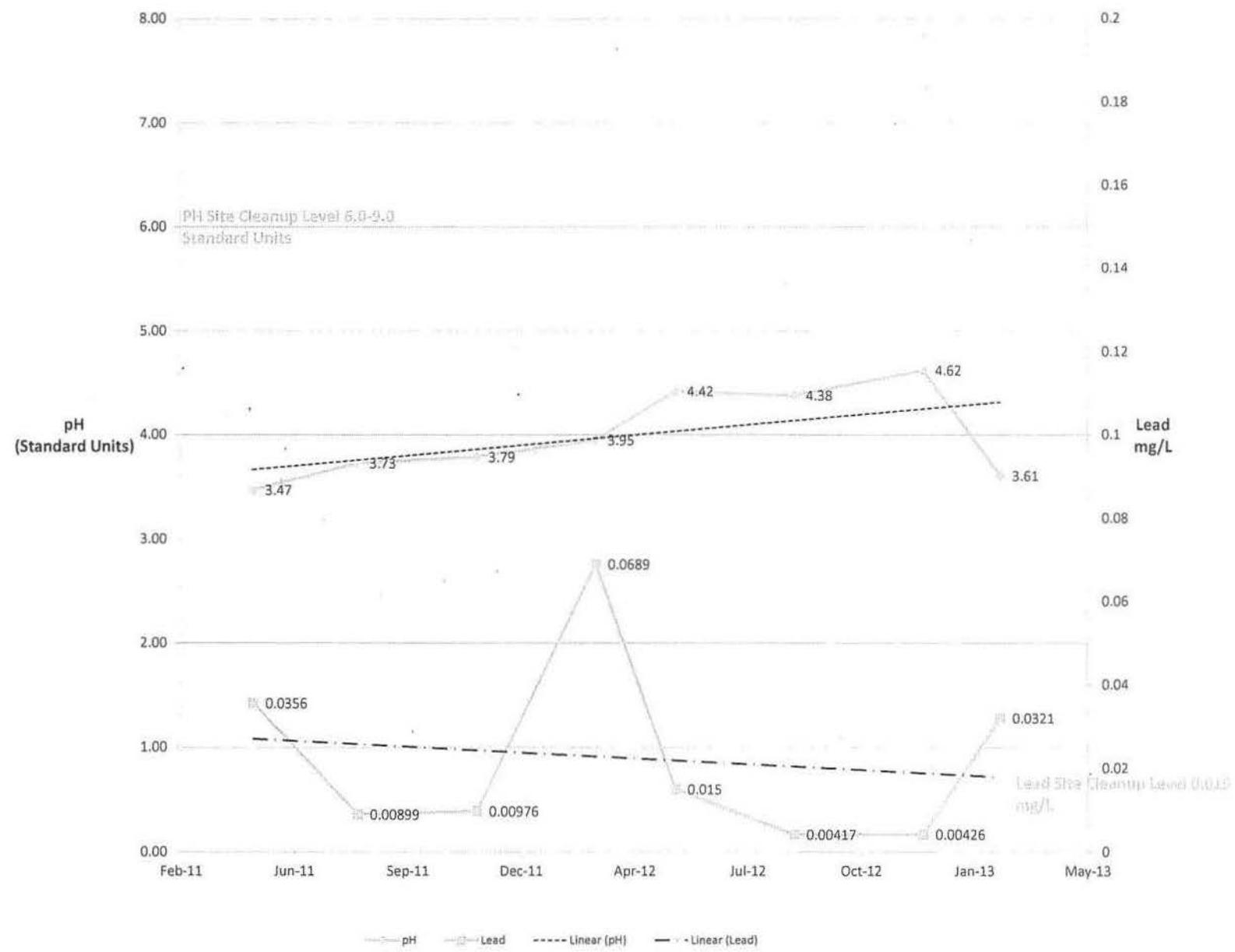
DW-2 Nickel and Thallium



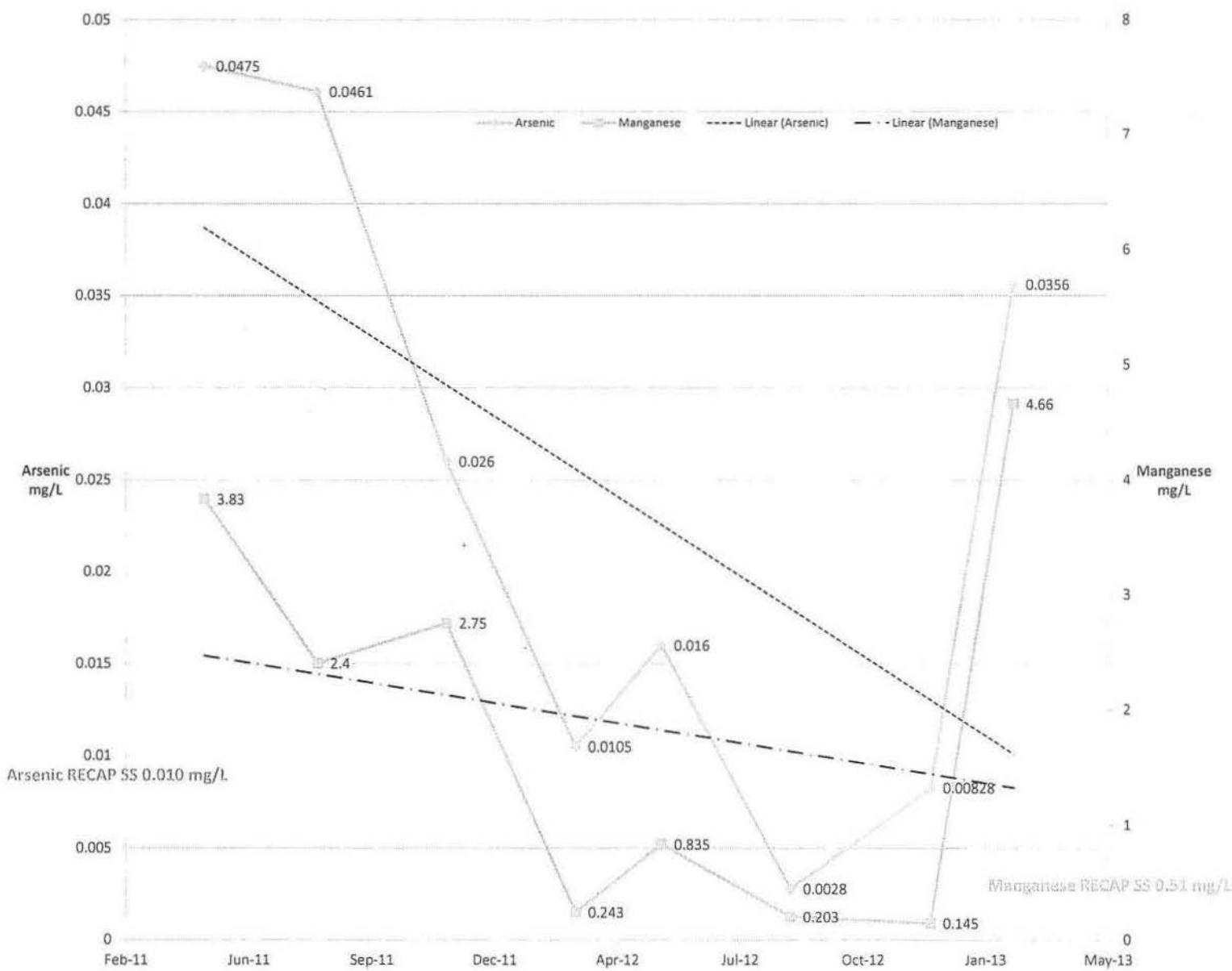
DW-2 Cadmium and Zinc



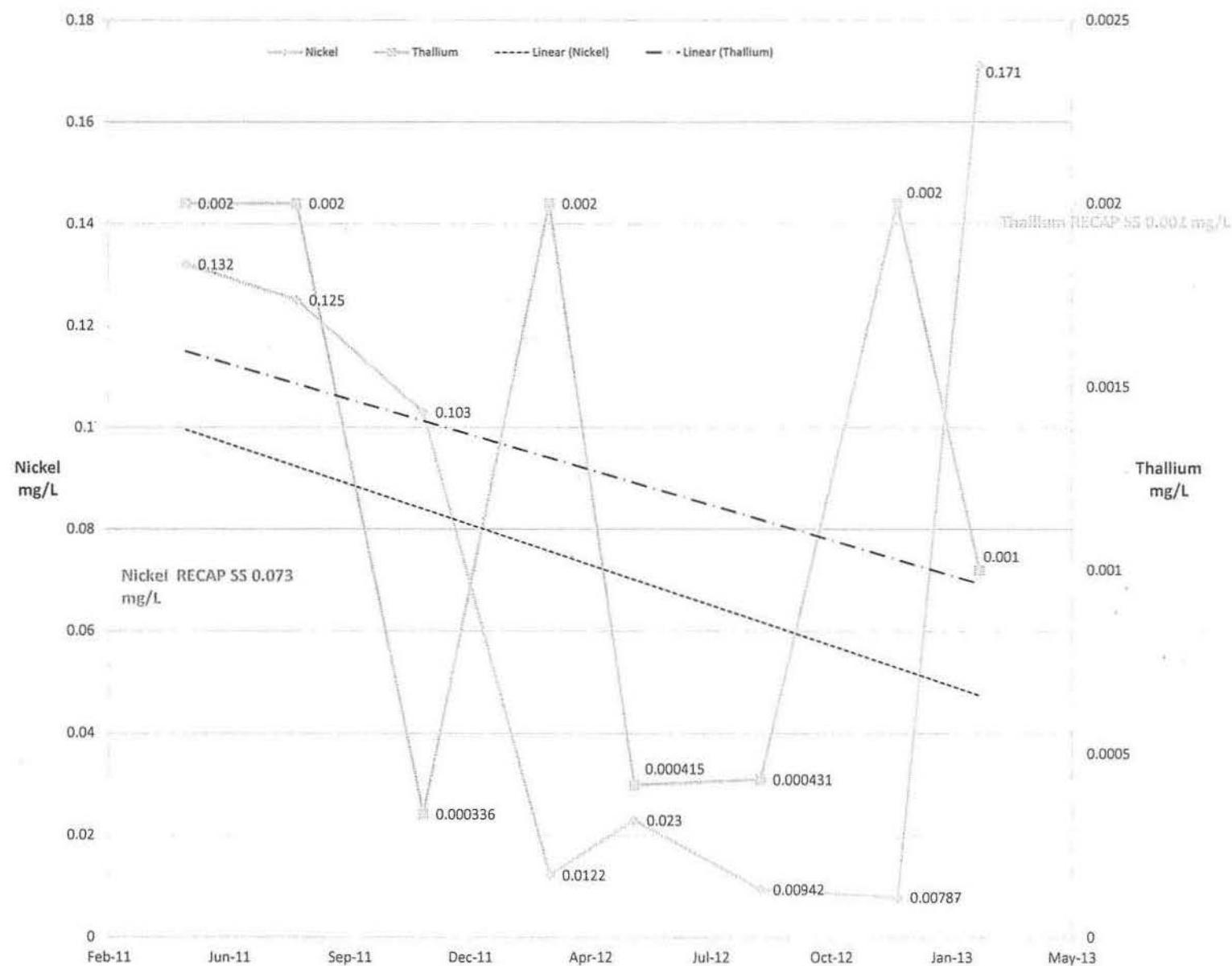
DW-3 pH and Lead



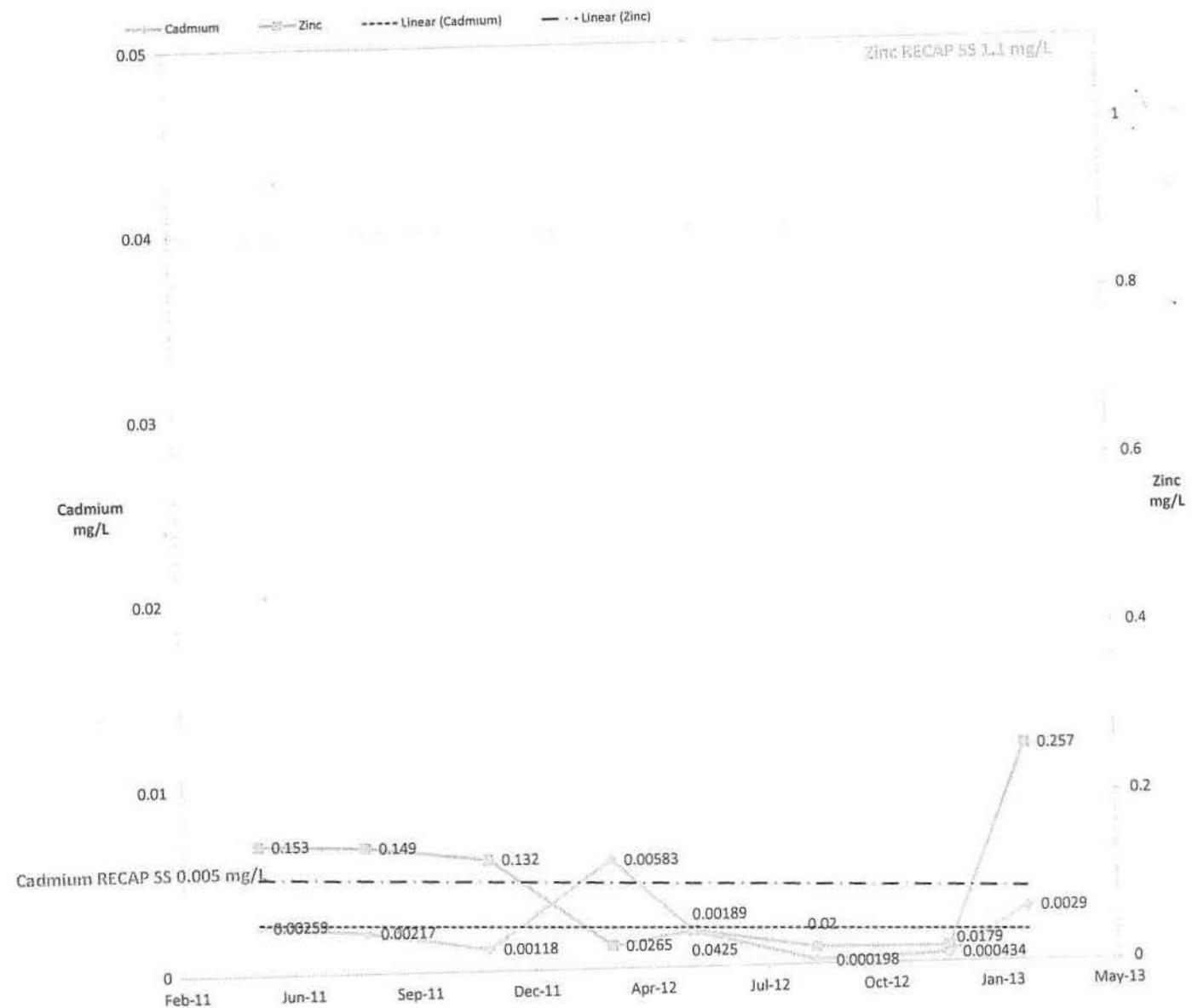
DW-3 Arsenic and Manganese

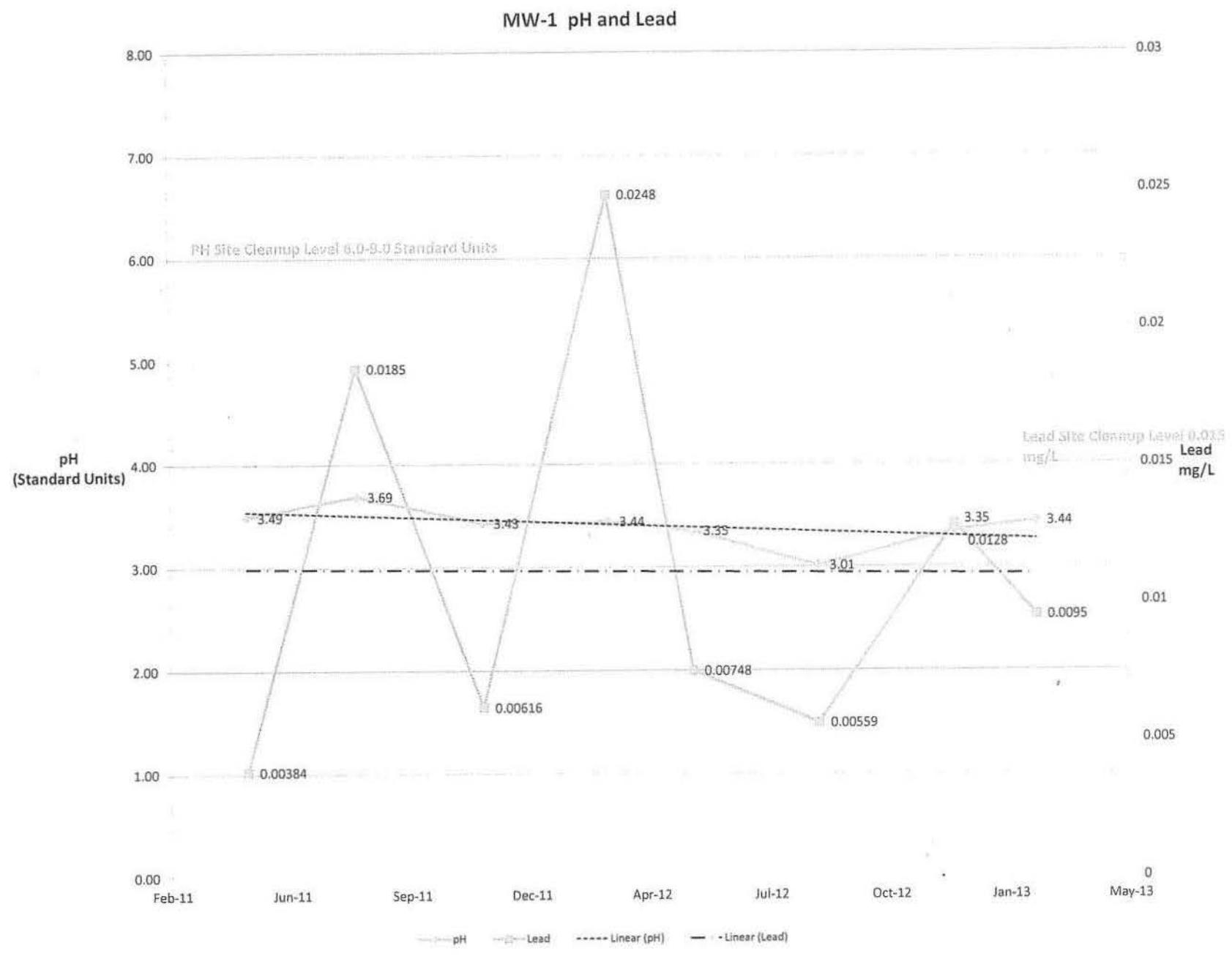


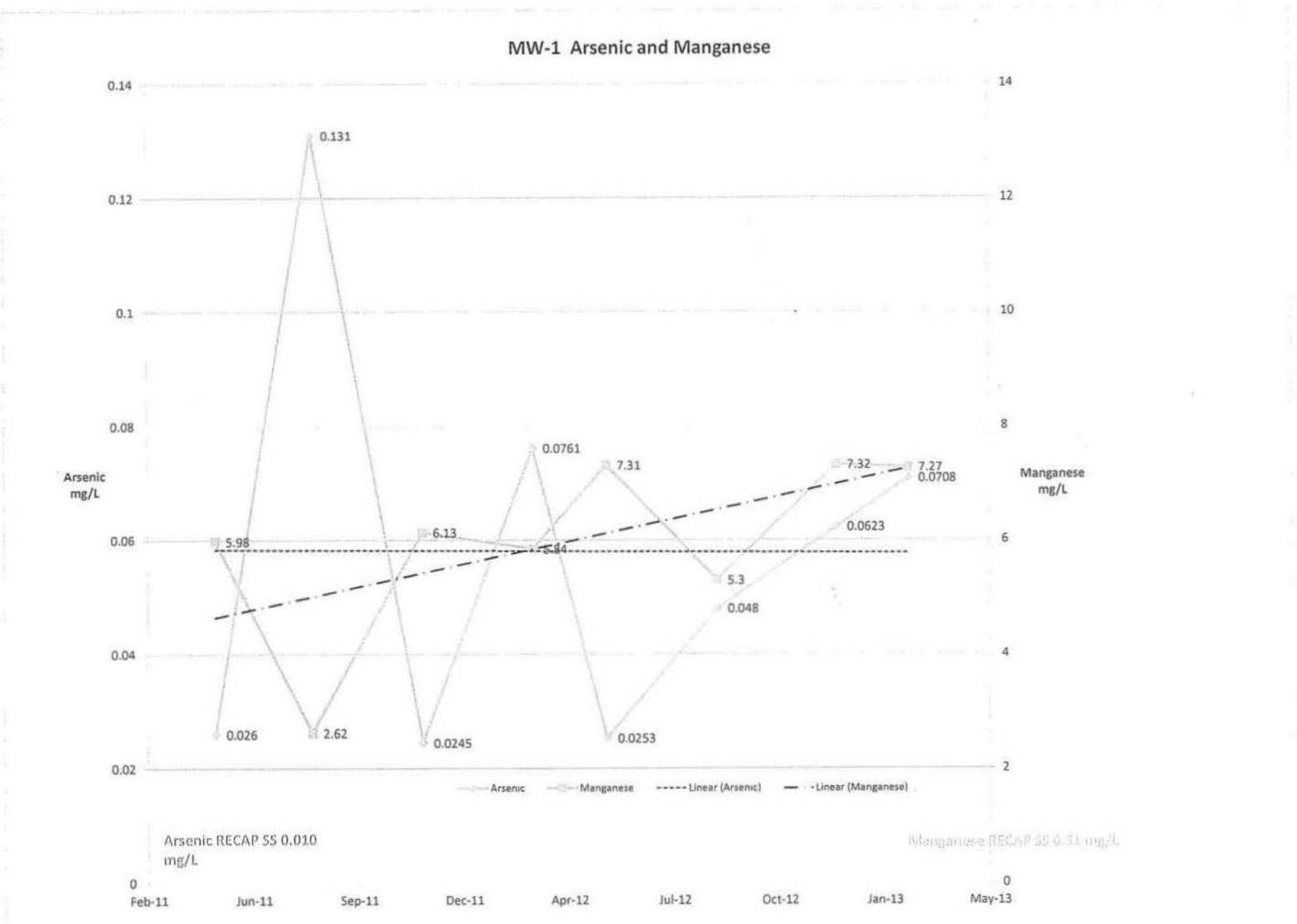
DW-3 Nickel and Thallium



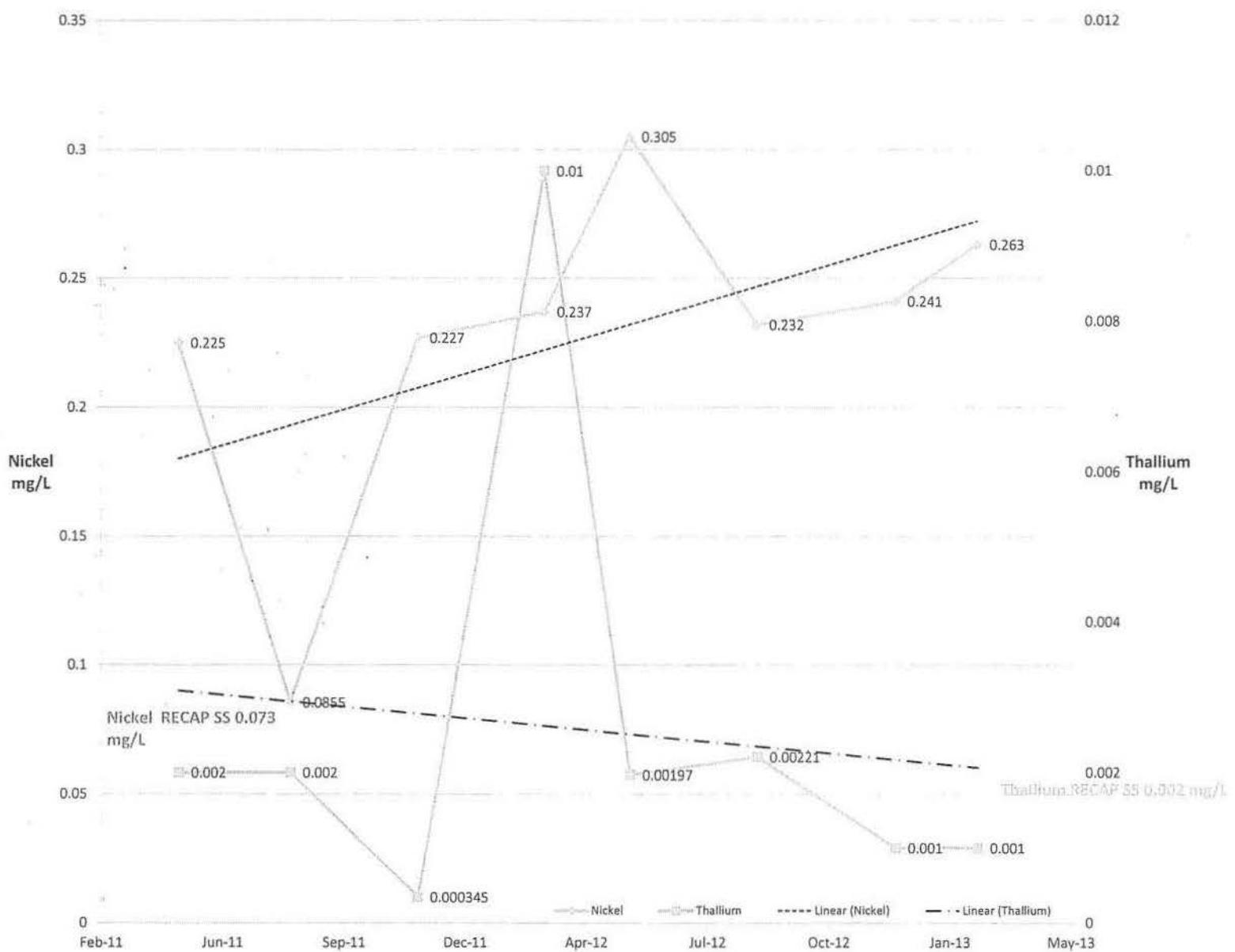
DW-3 Cadmium and Zinc



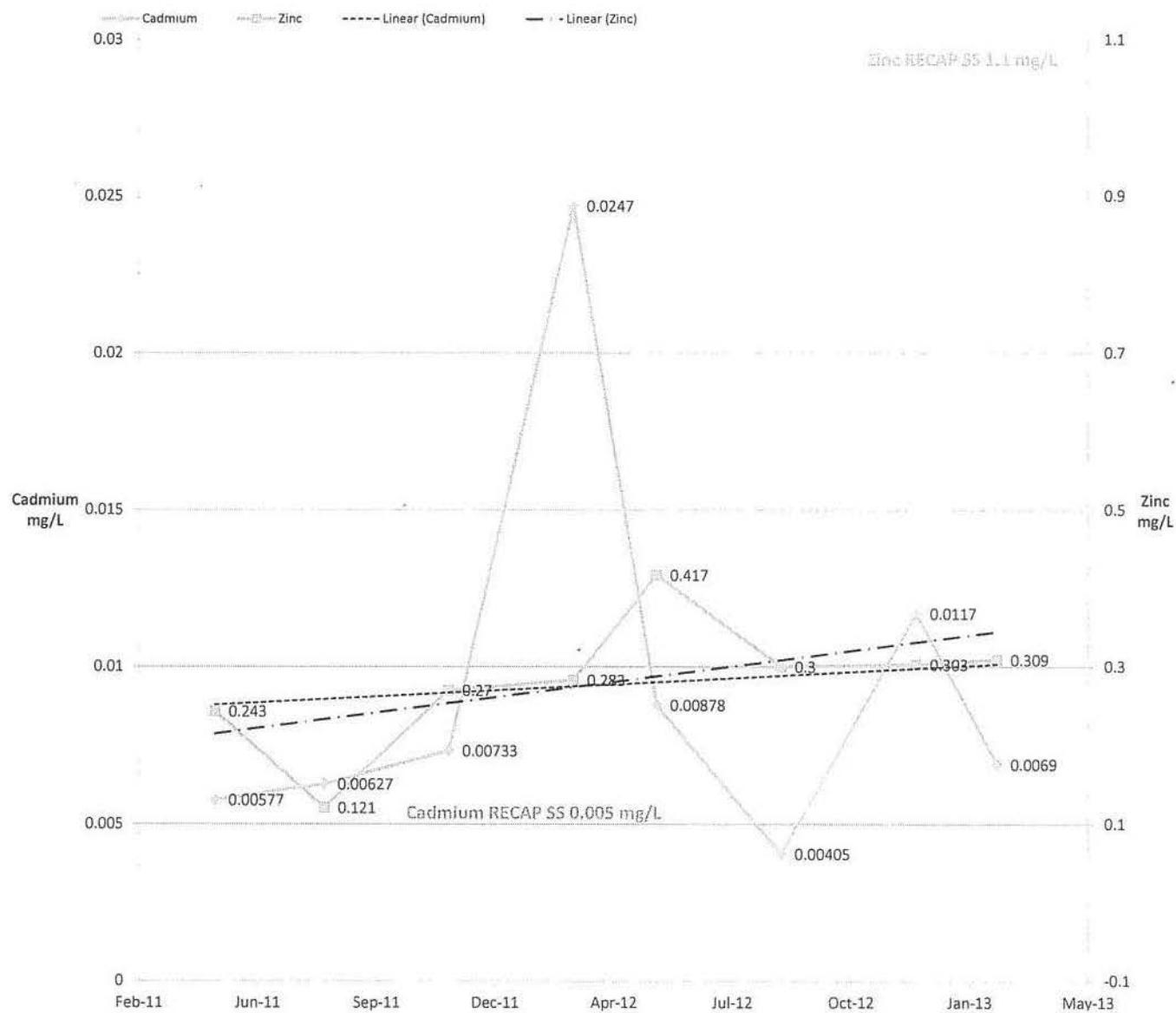




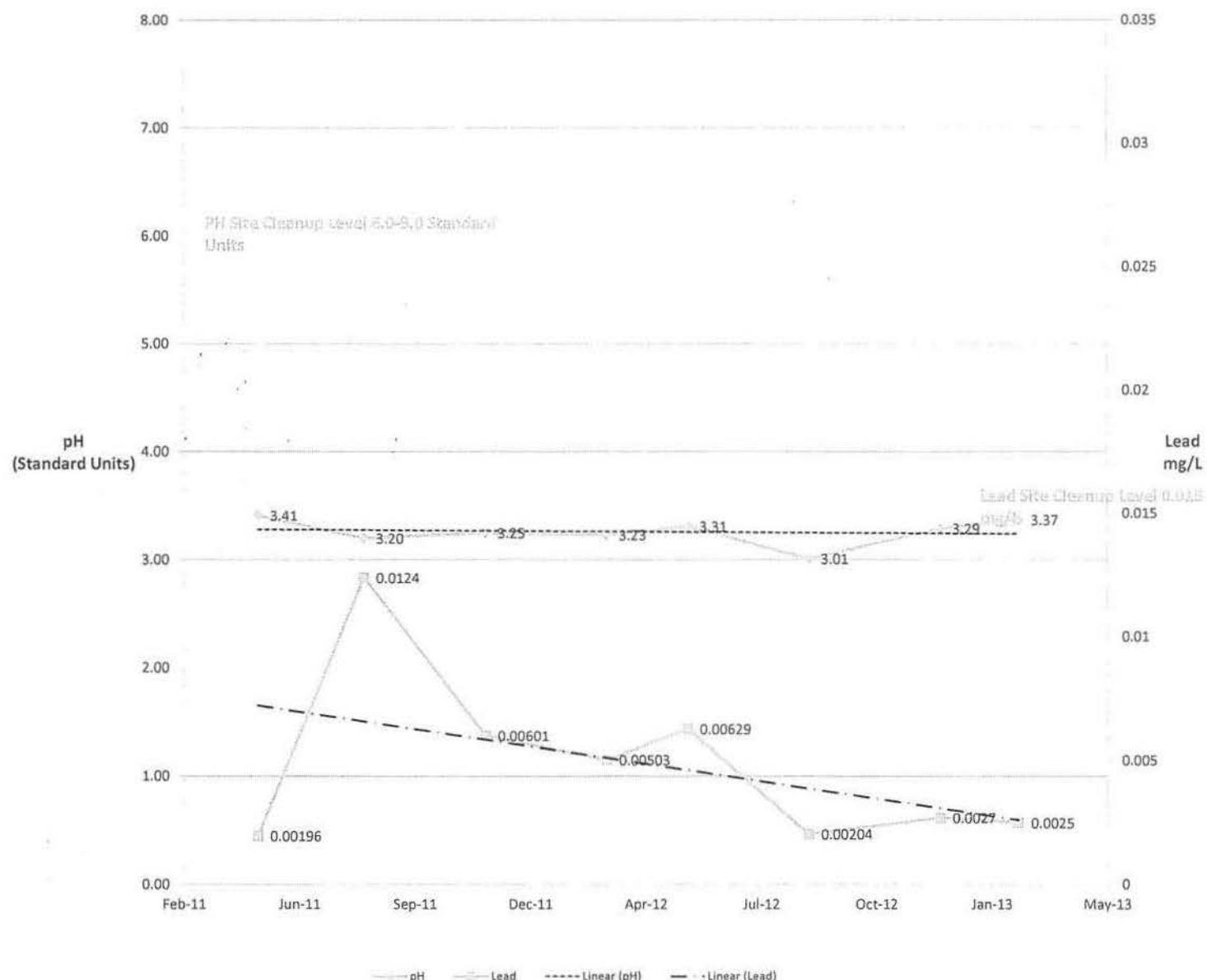
MW-1 Nickel and Thallium



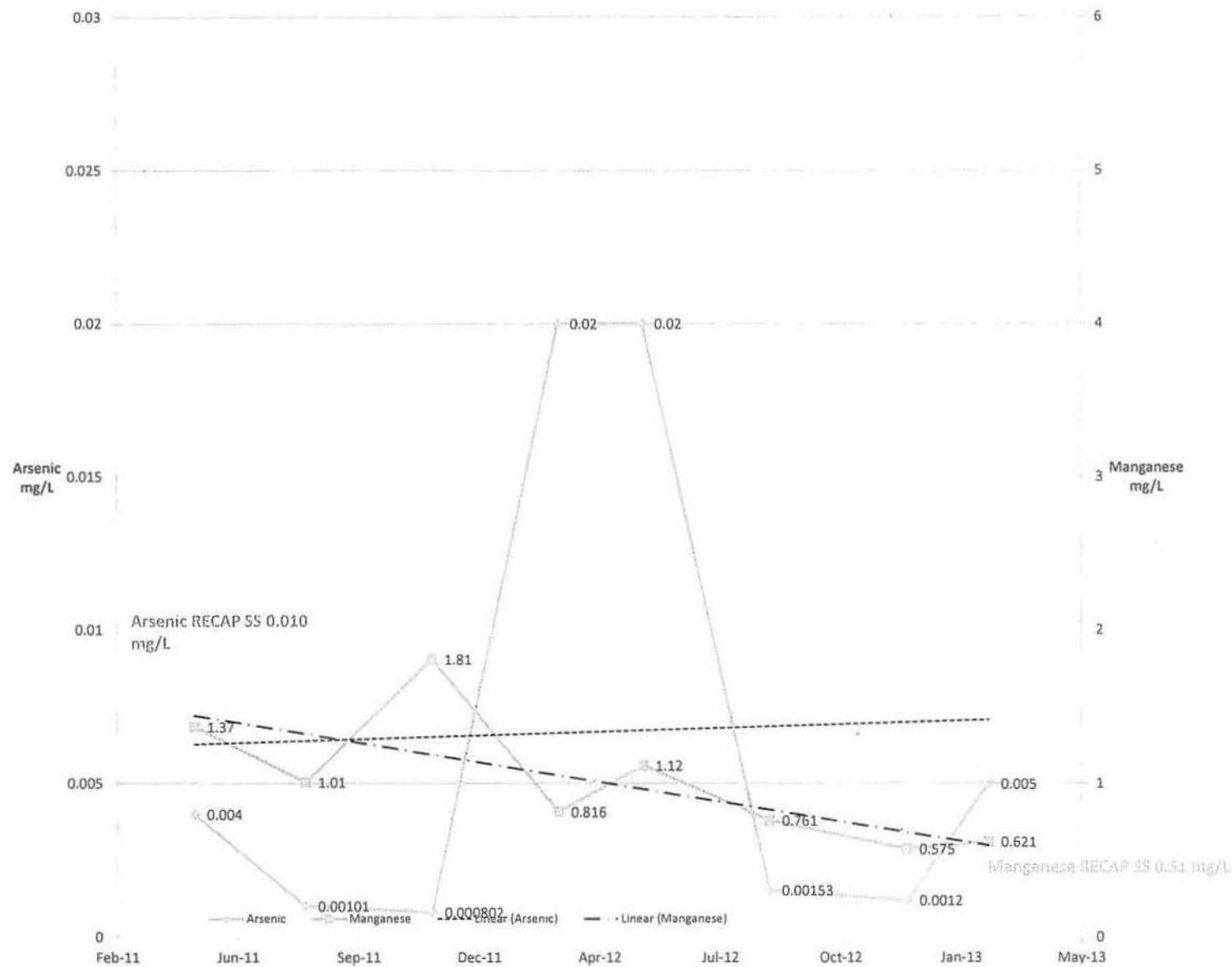
MW-1 Cadmium and Zinc



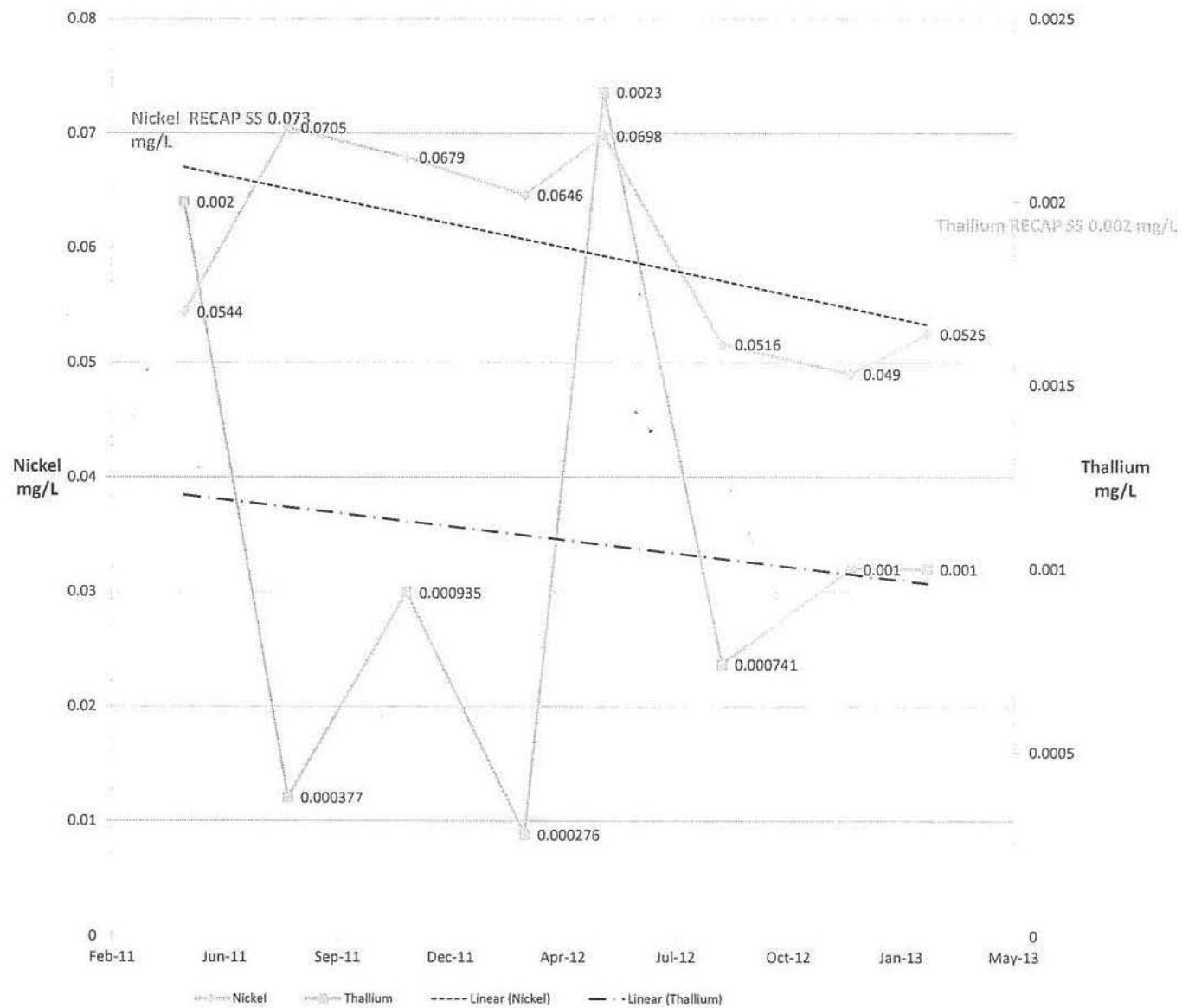
MW-2 pH and Lead



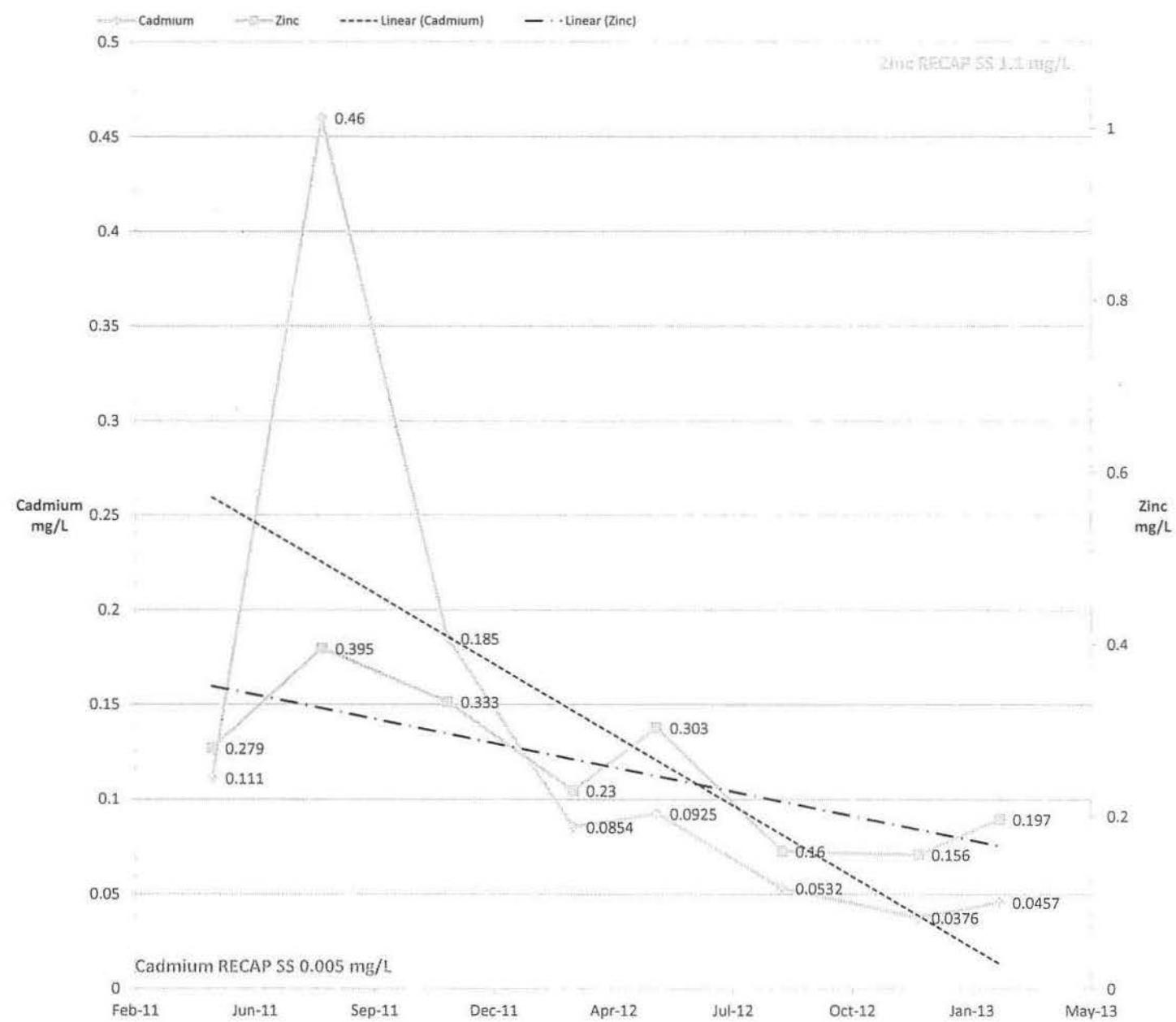
MW-2 Arsenic and Manganese



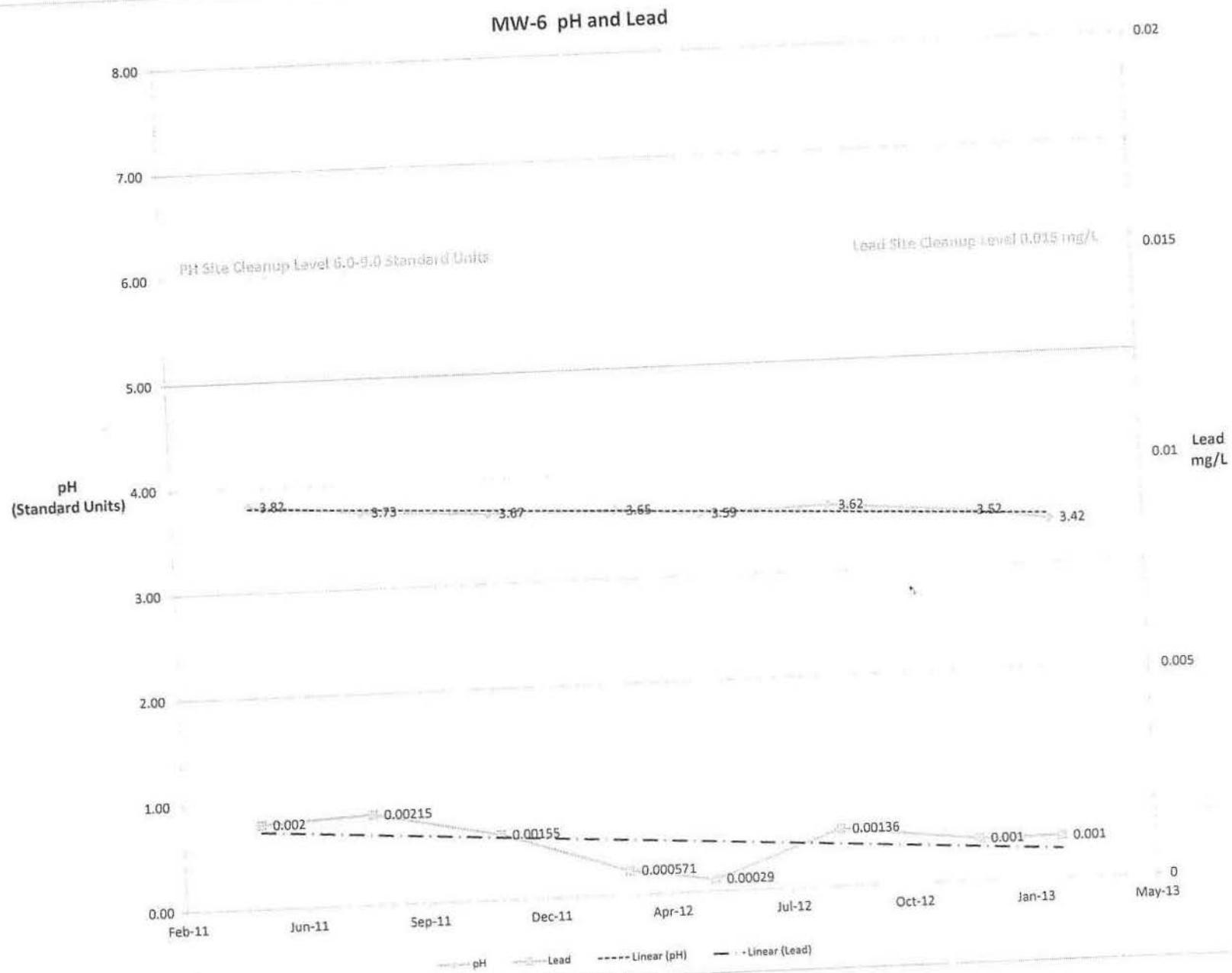
MW-2 Nickel and Thallium



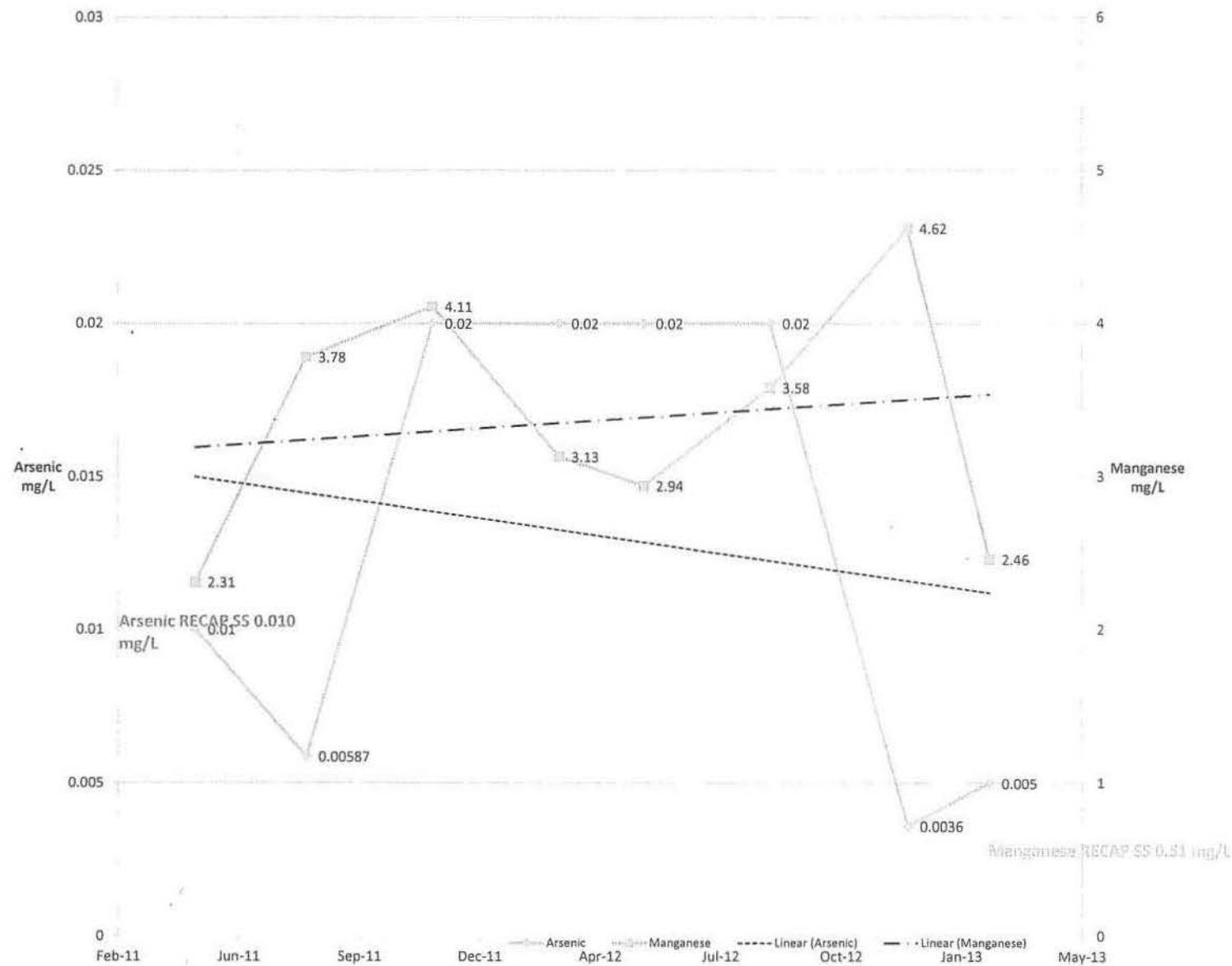
MW-2 Cadmium and Zinc



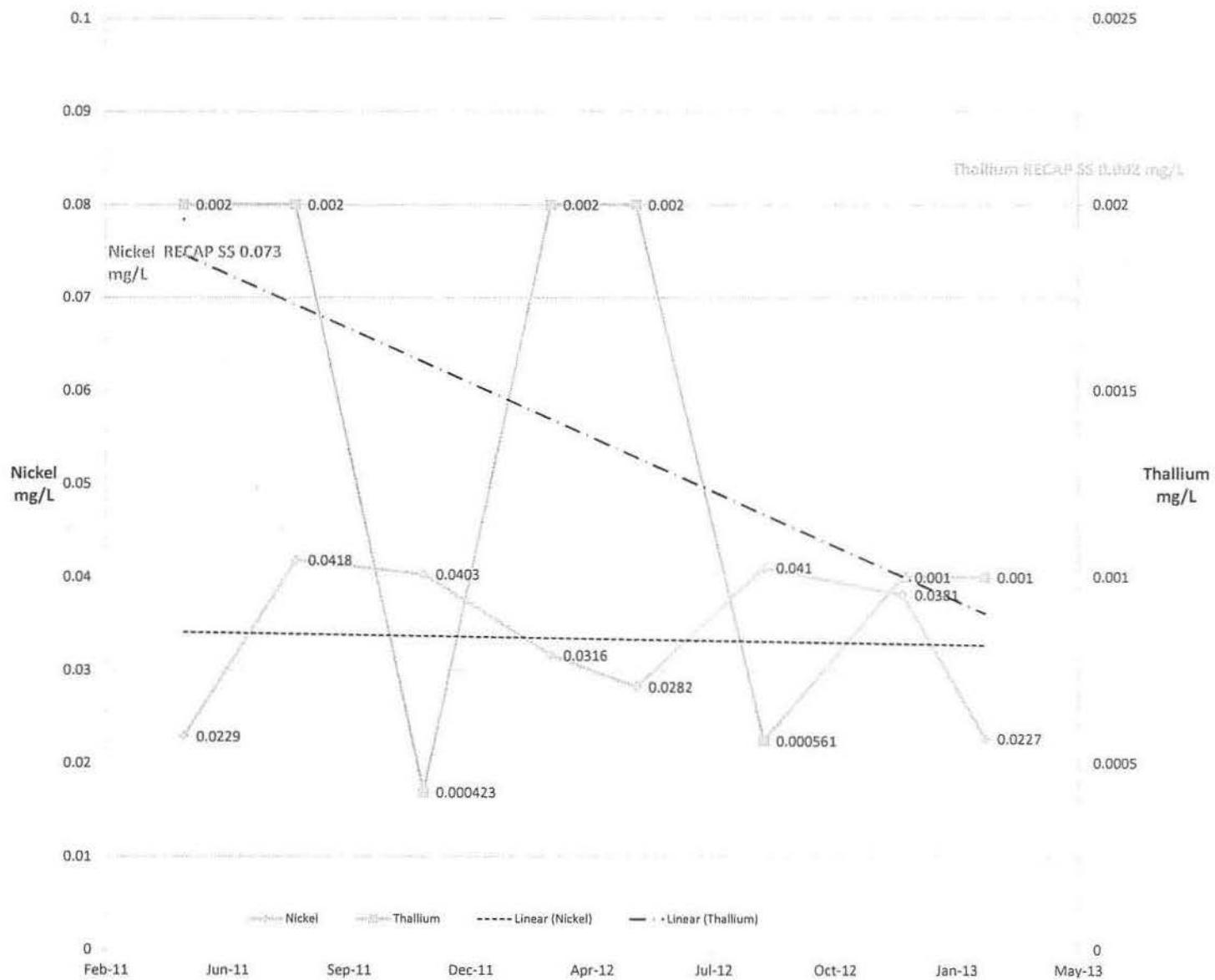
MW-6 pH and Lead



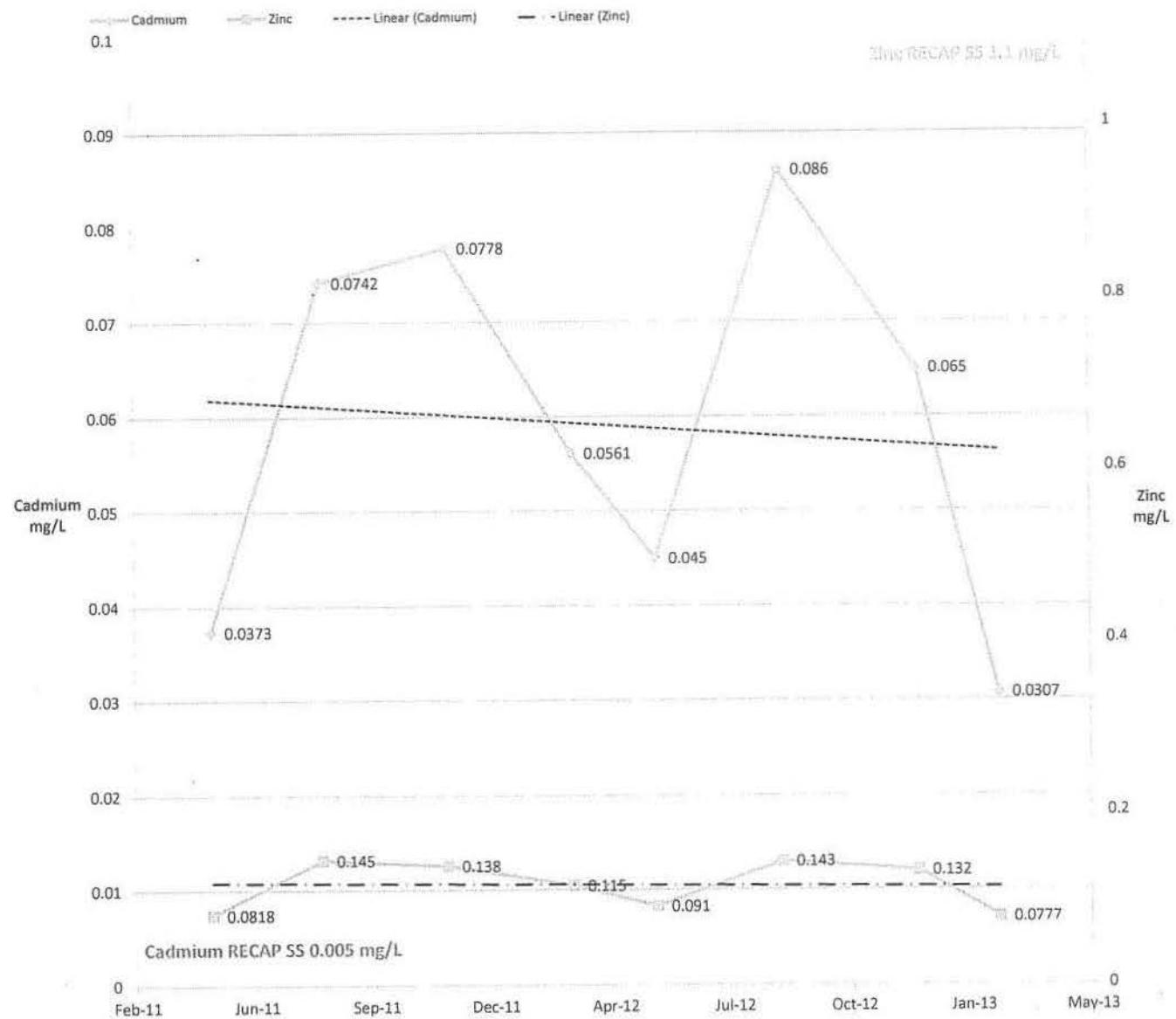
MW-6 Arsenic and Manganese

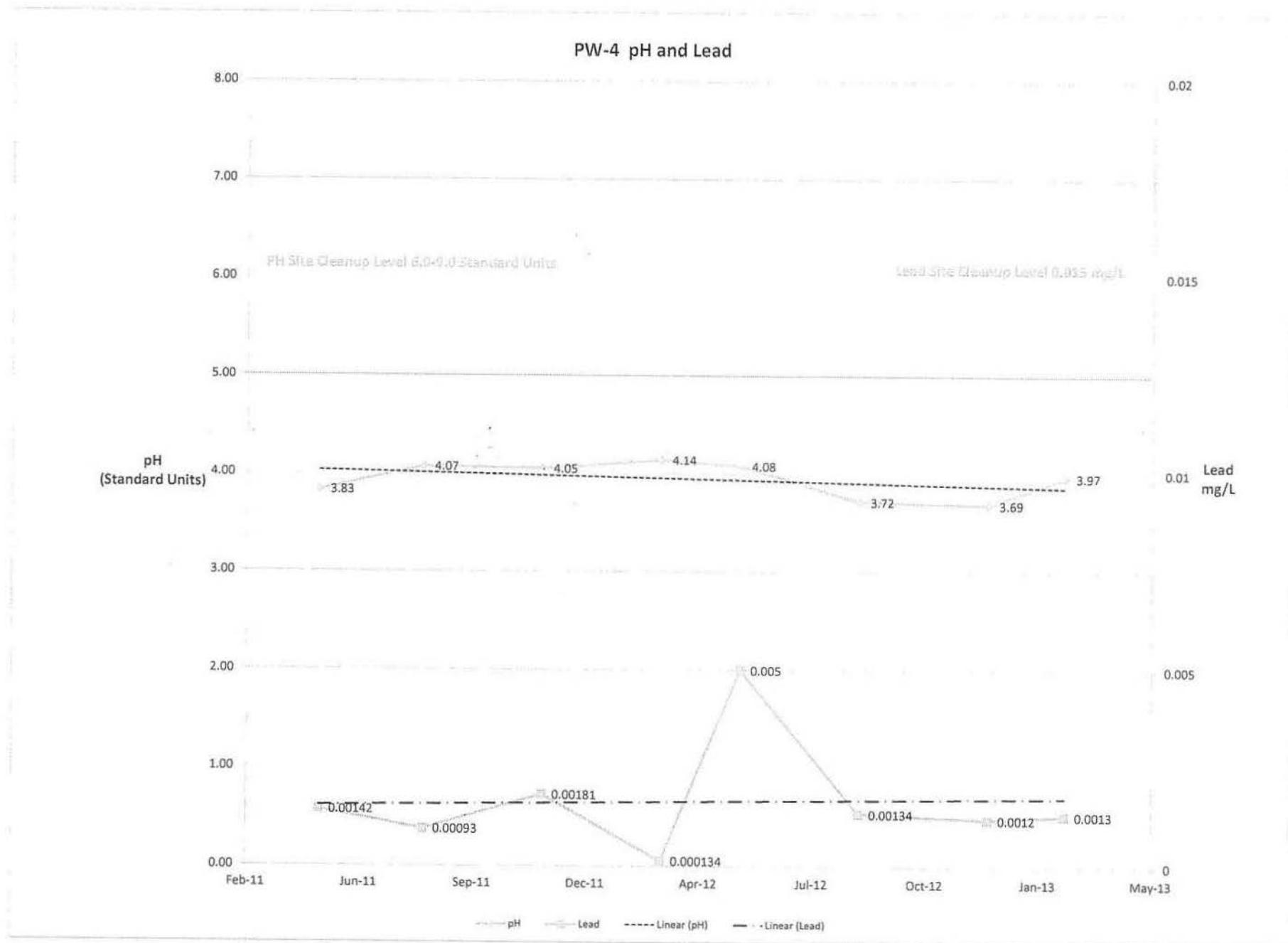


MW-6 Nickel and Thallium

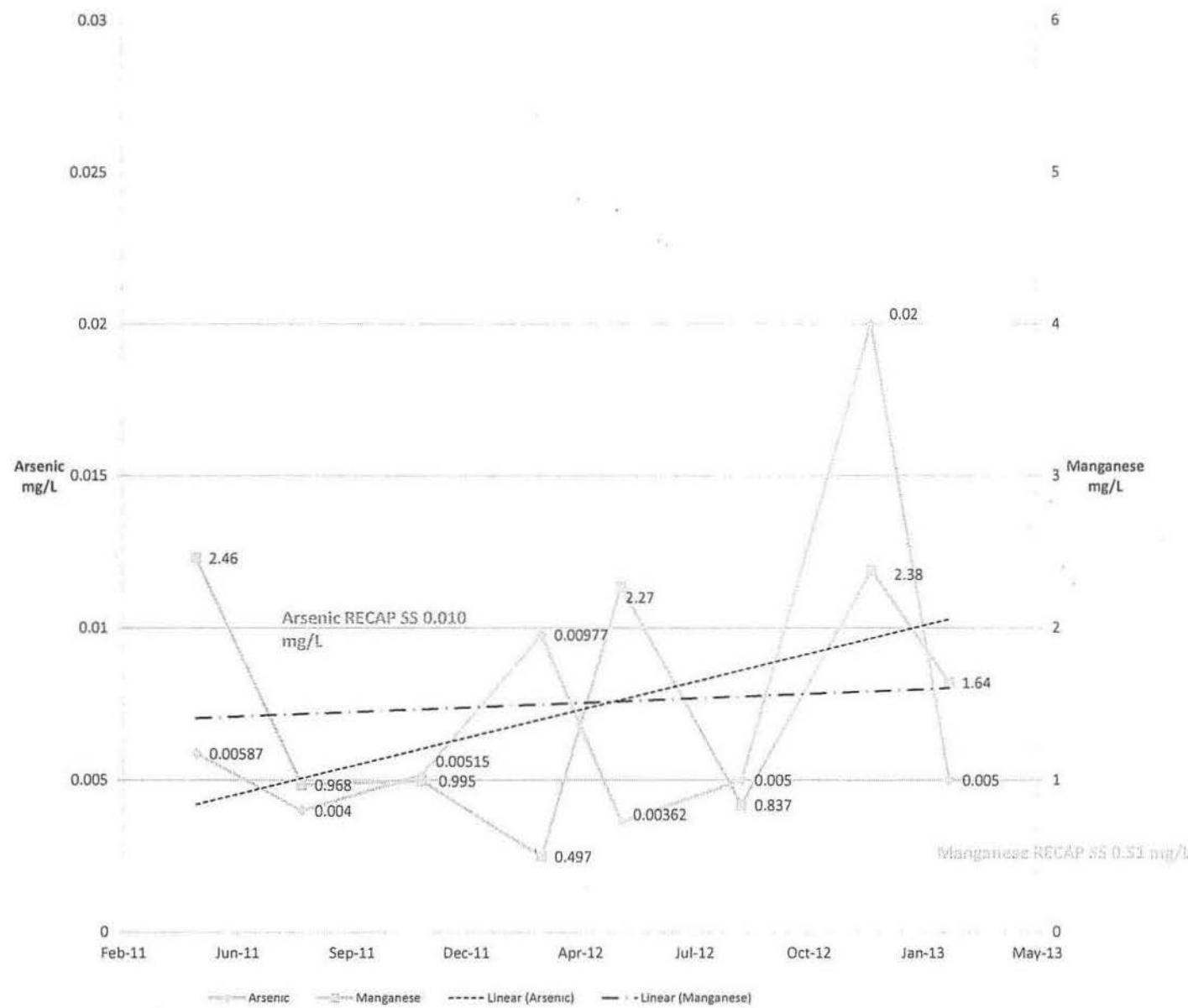


MW-6 Cadmium and Zinc

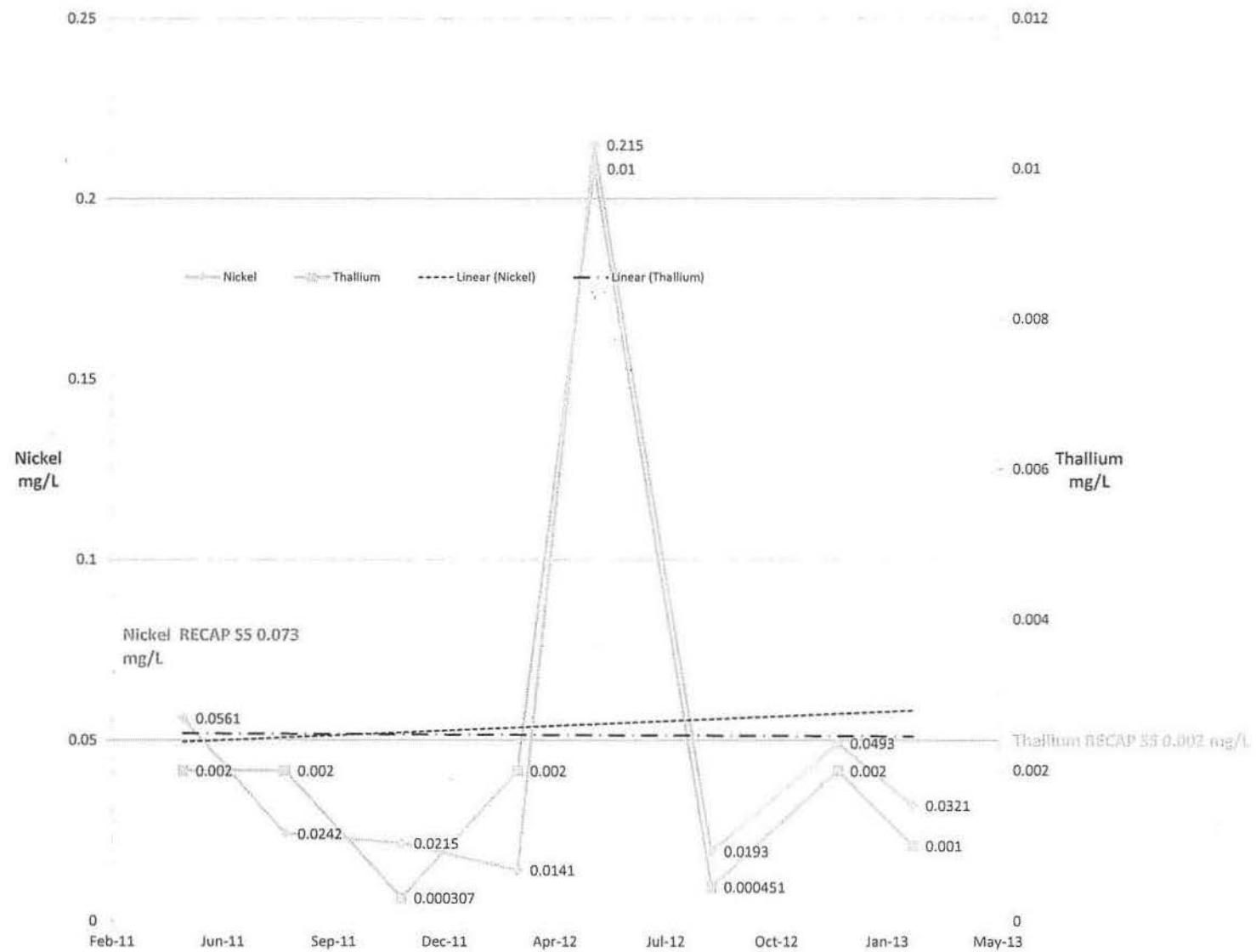




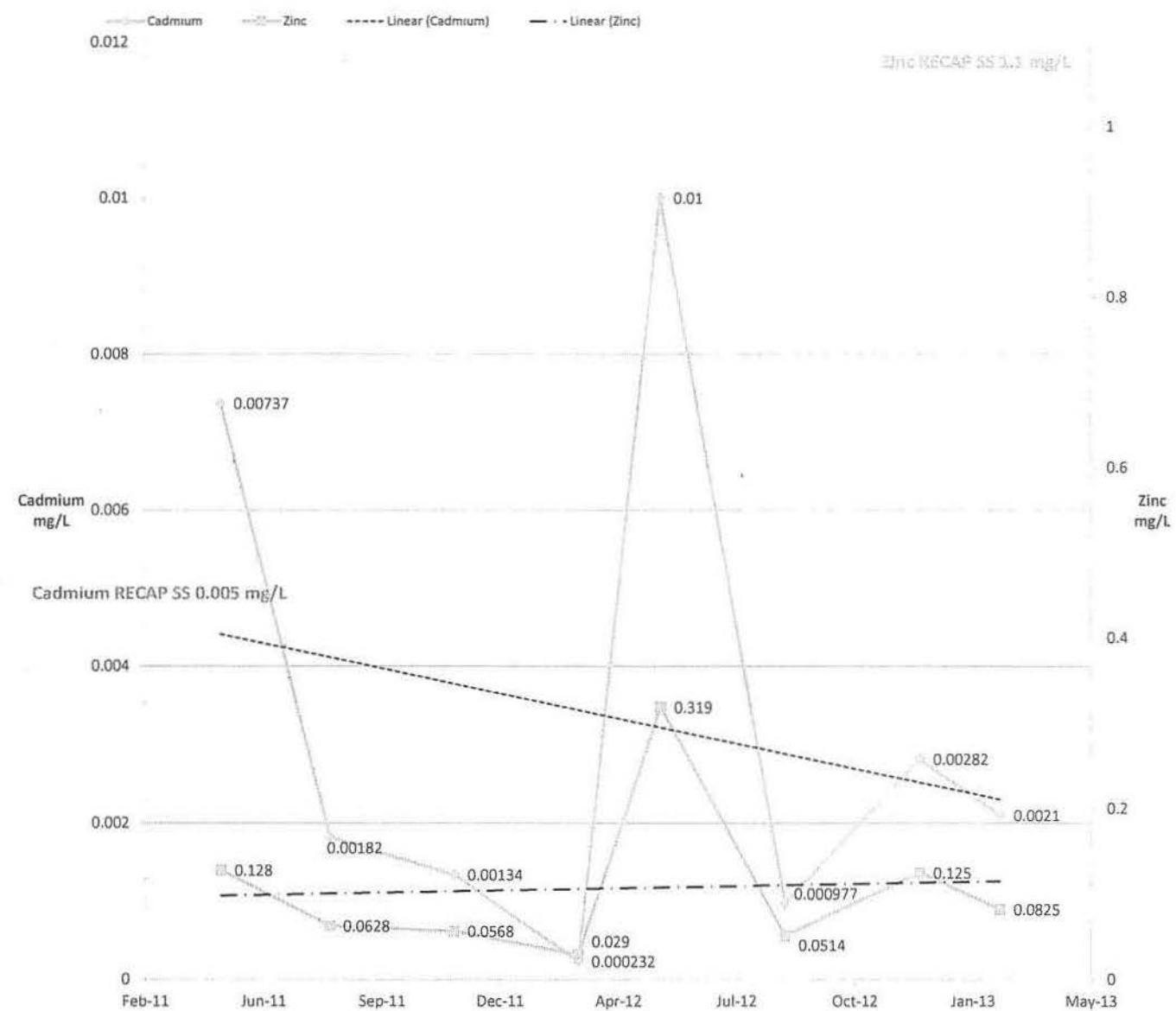
PW-4 Arsenic and Manganese

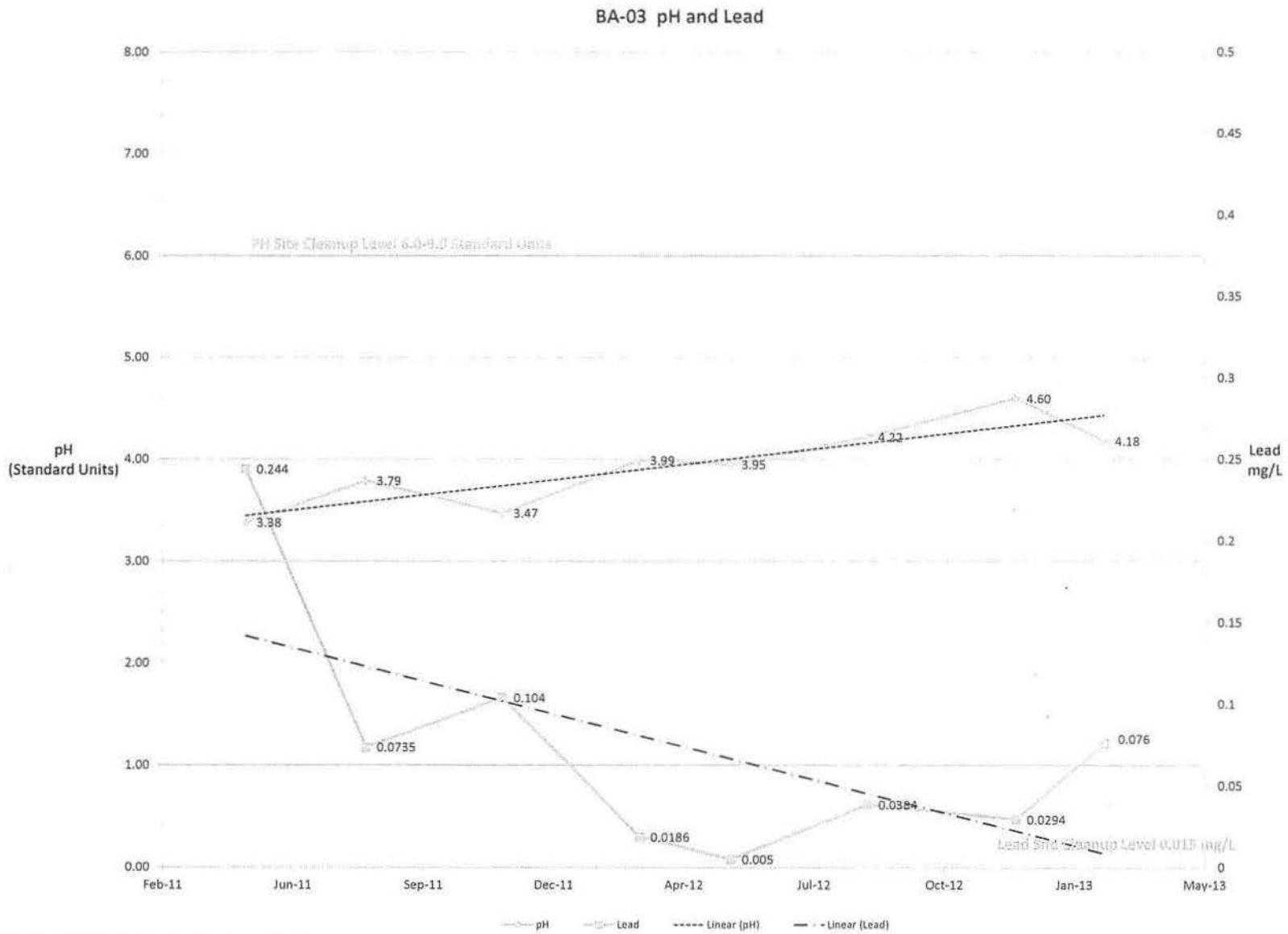


PW-4 Nickel and Thallium

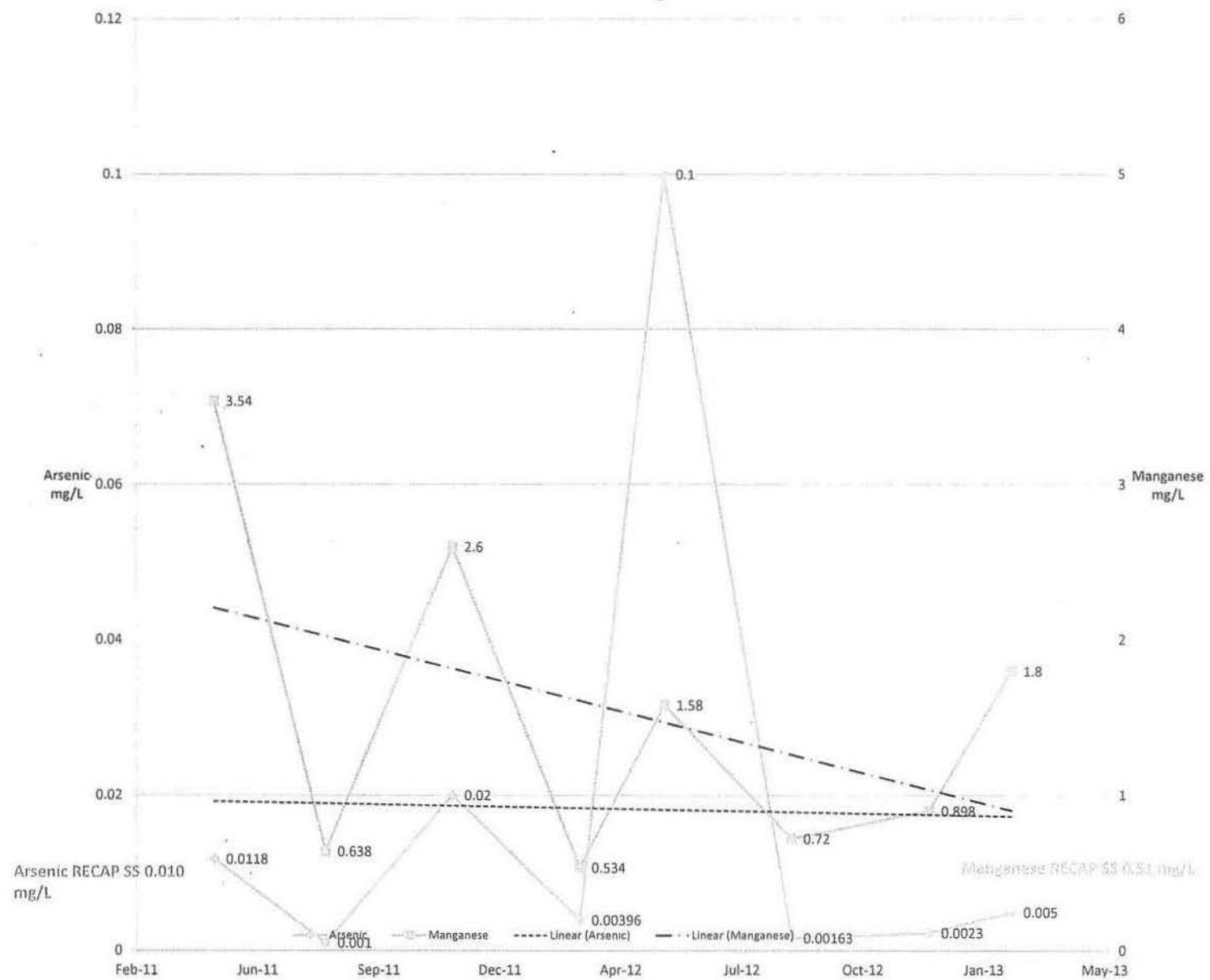


PW-4 Cadmium and Zinc

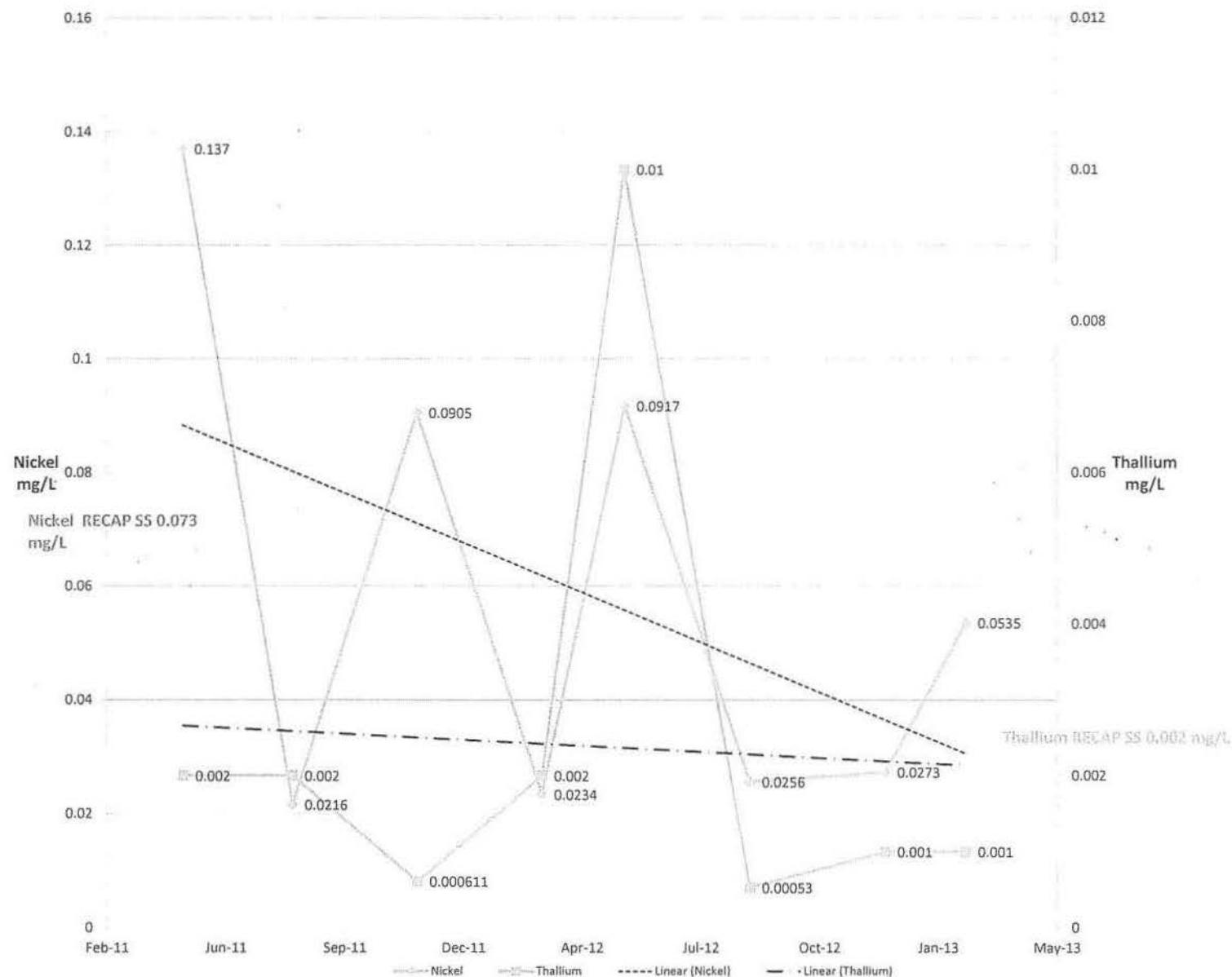




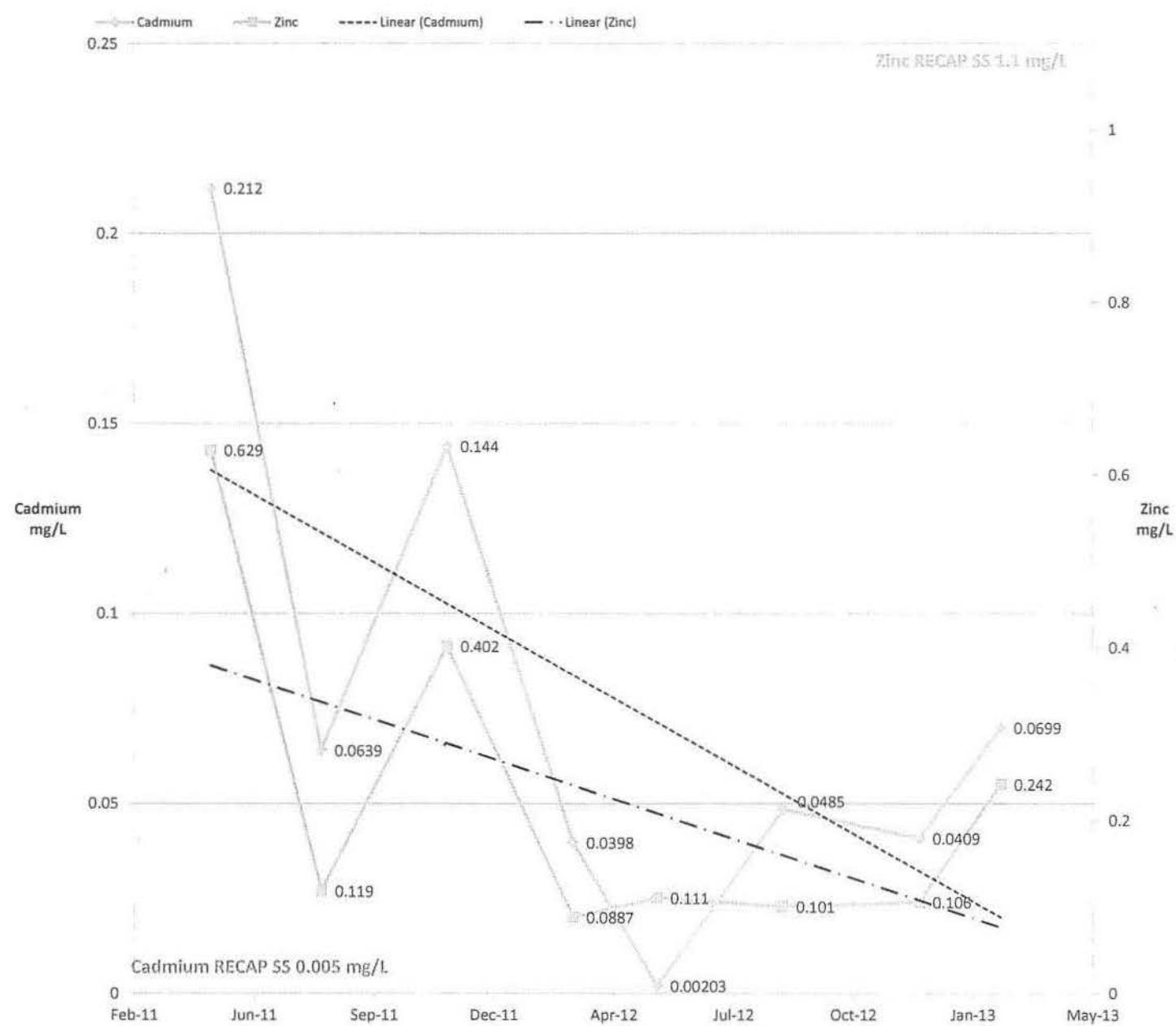
BA-03 Arsenic and Manganese



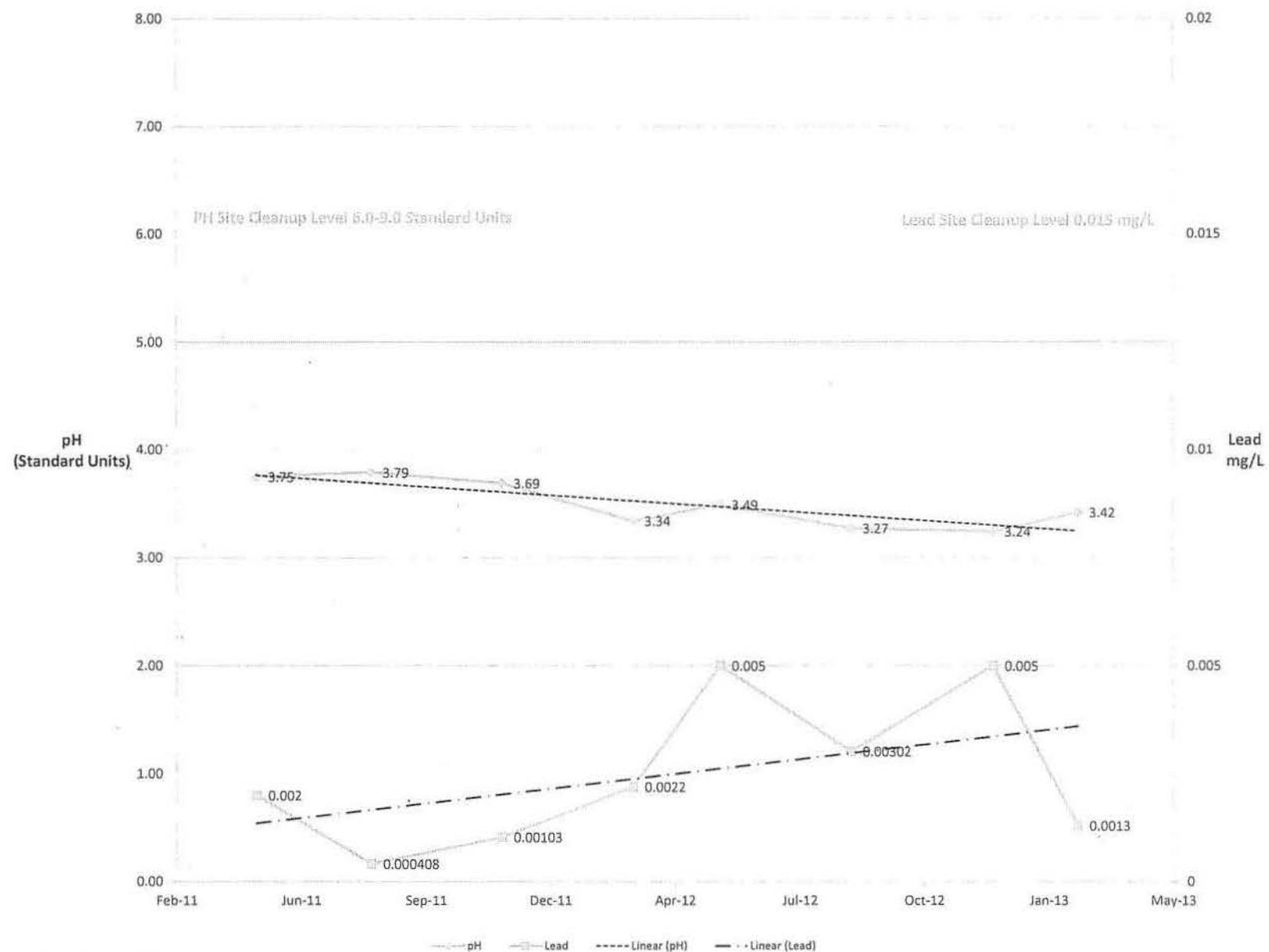
BA-03 Nickel and Thallium



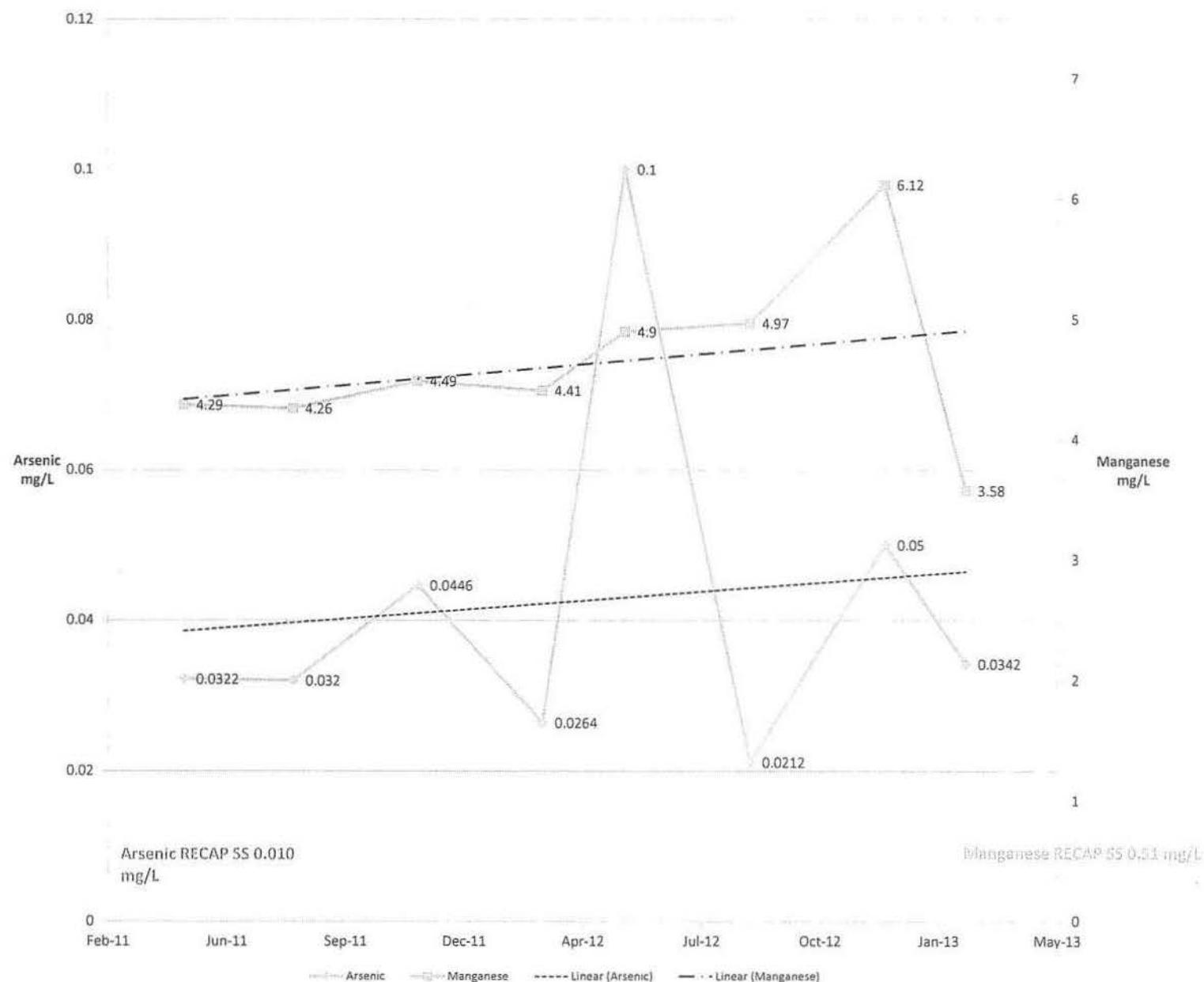
BA-03 Cadmium and Zinc



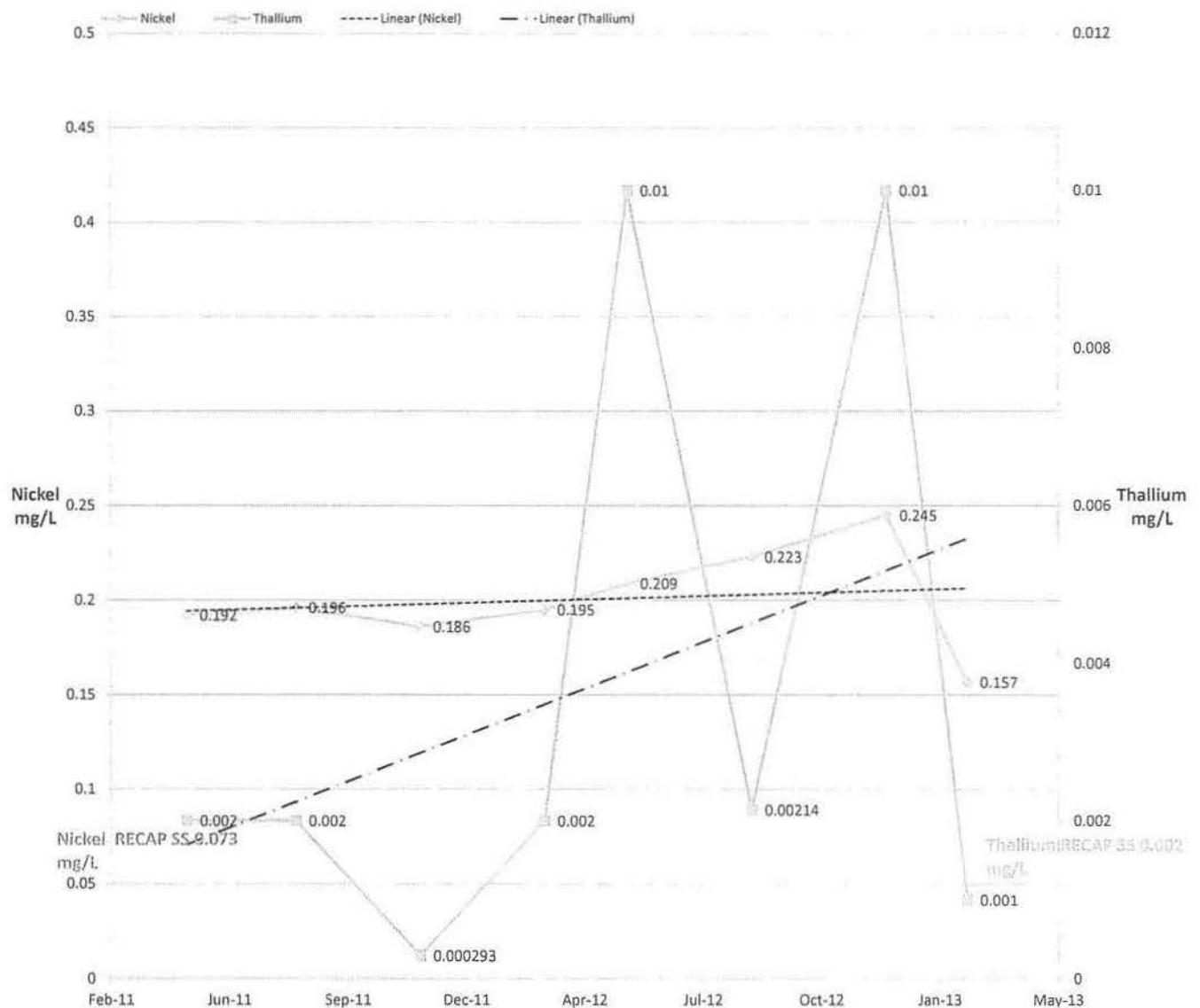
BA-09 pH and Lead



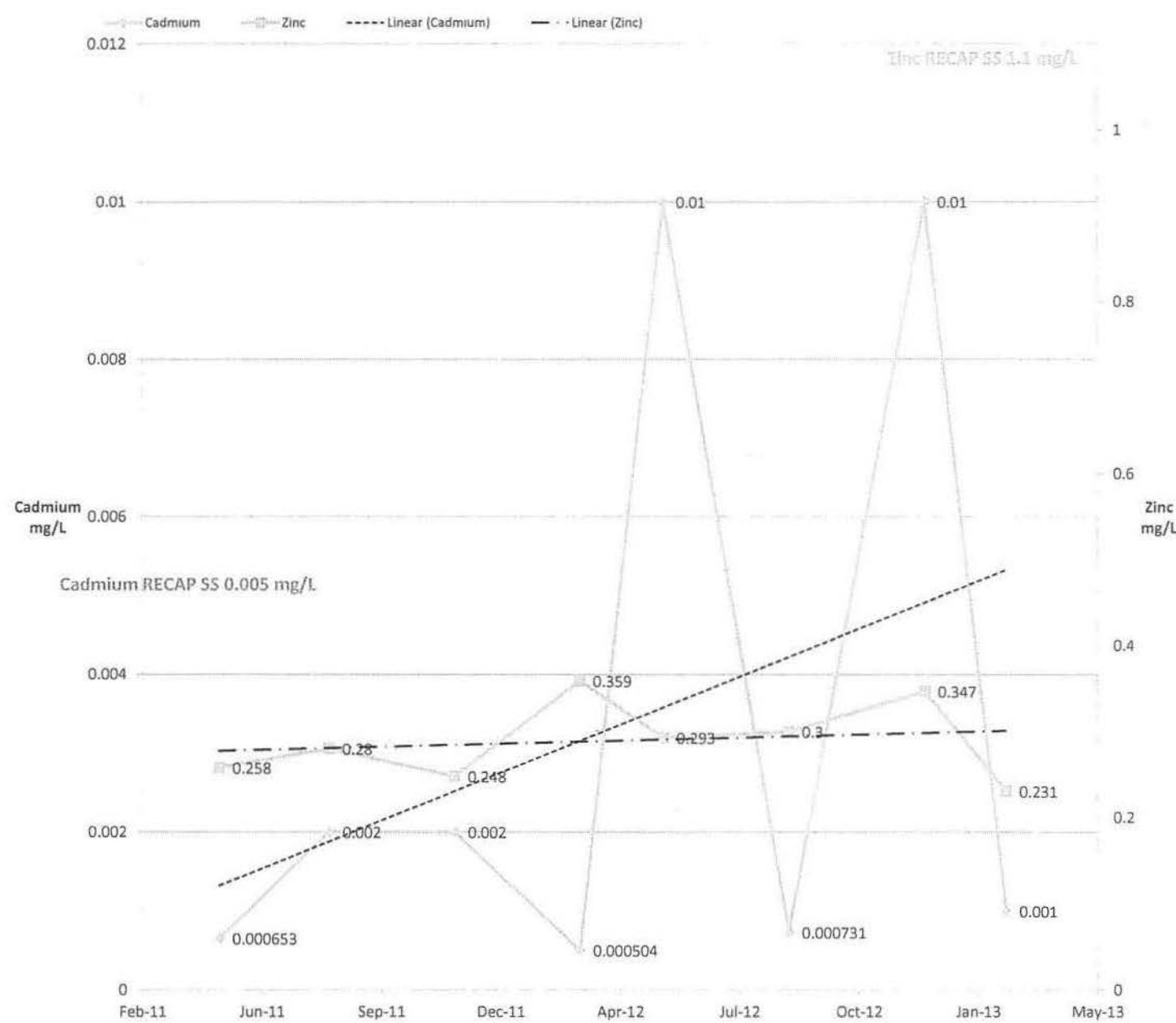
BA-09 Arsenic and Manganese



BA-09 Nickel and Thallium

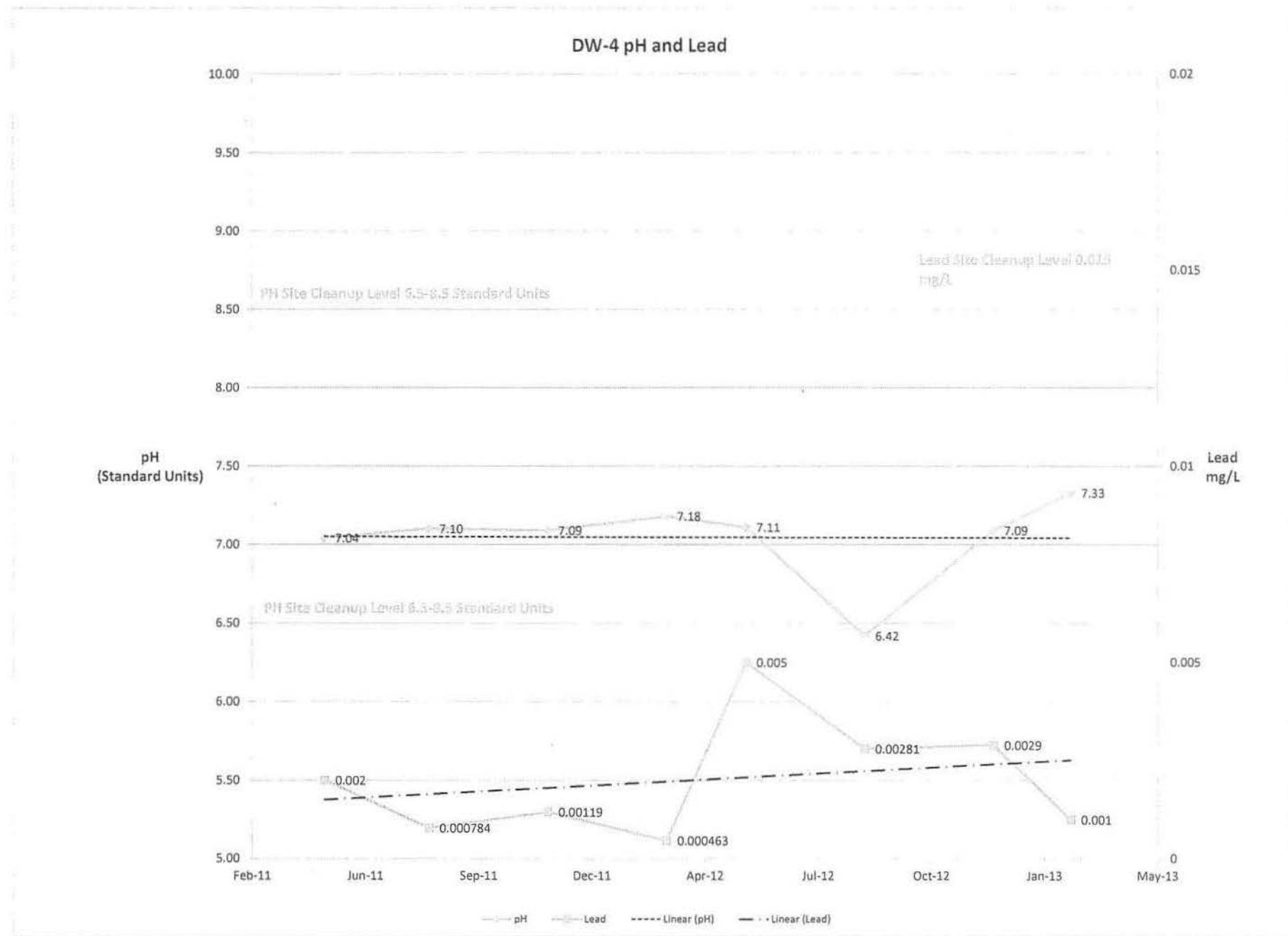


BA-09 Cadmium and Zinc

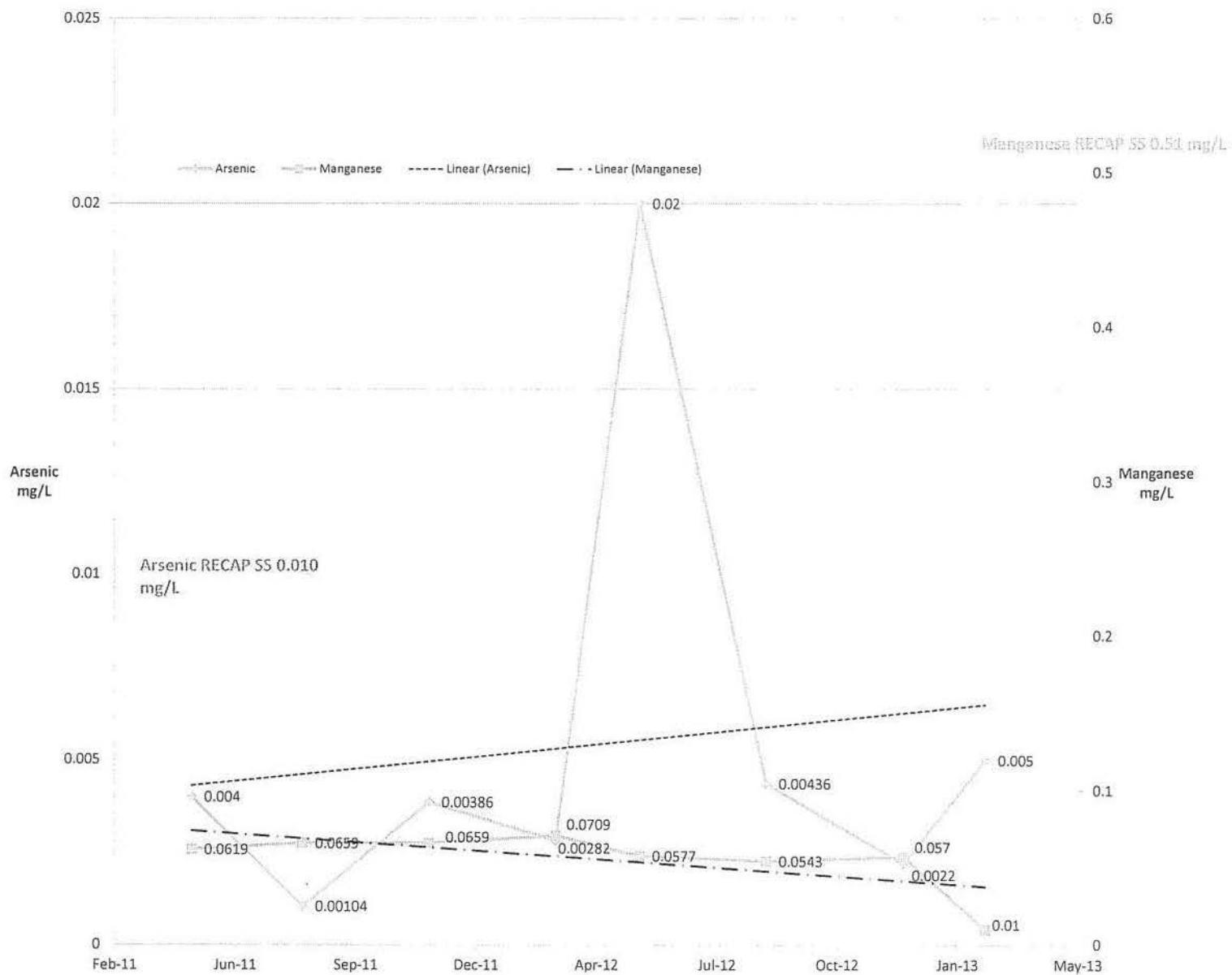


SECOND WATER BEARING ZONE

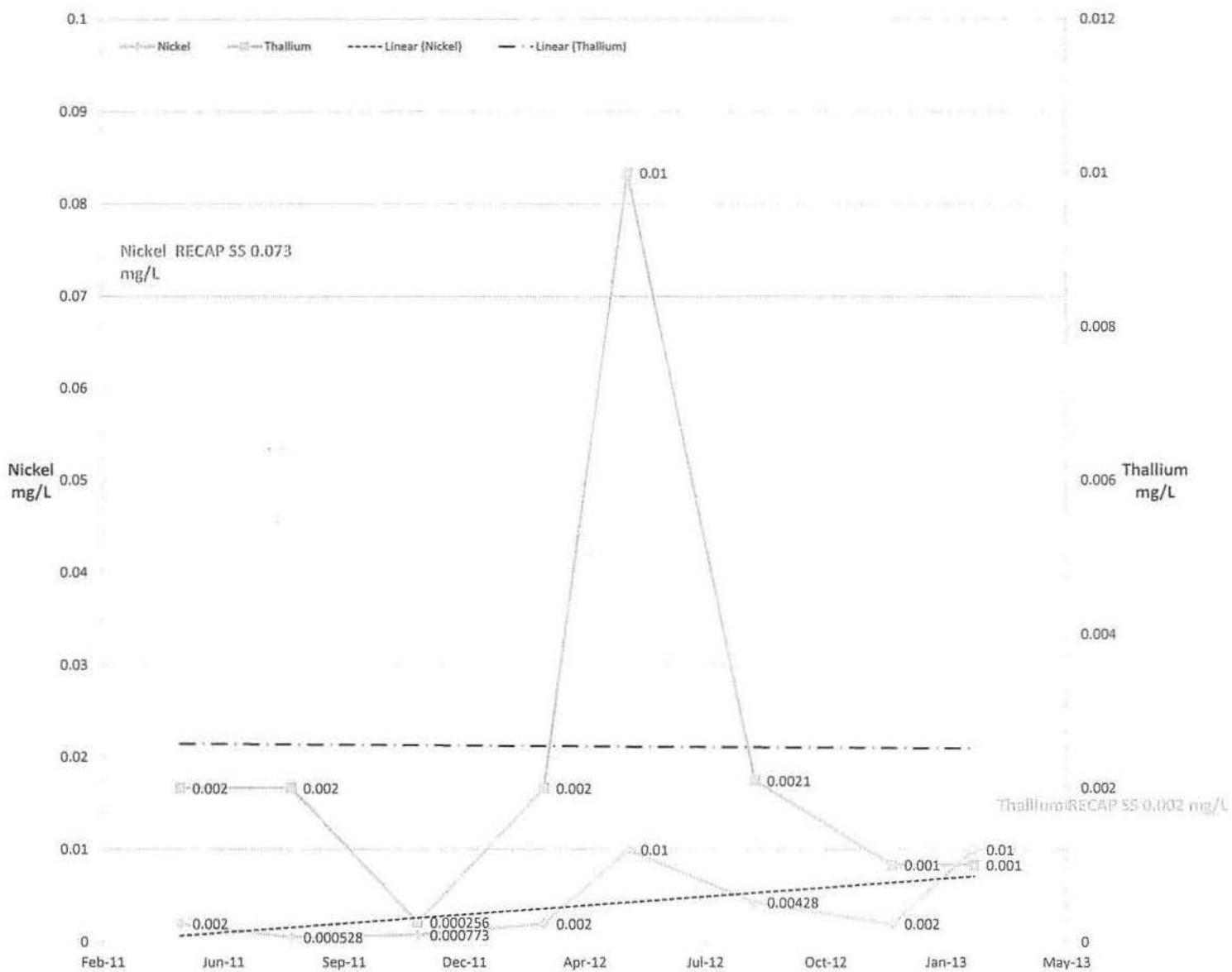
(PAST EIGHT QUARTERS)



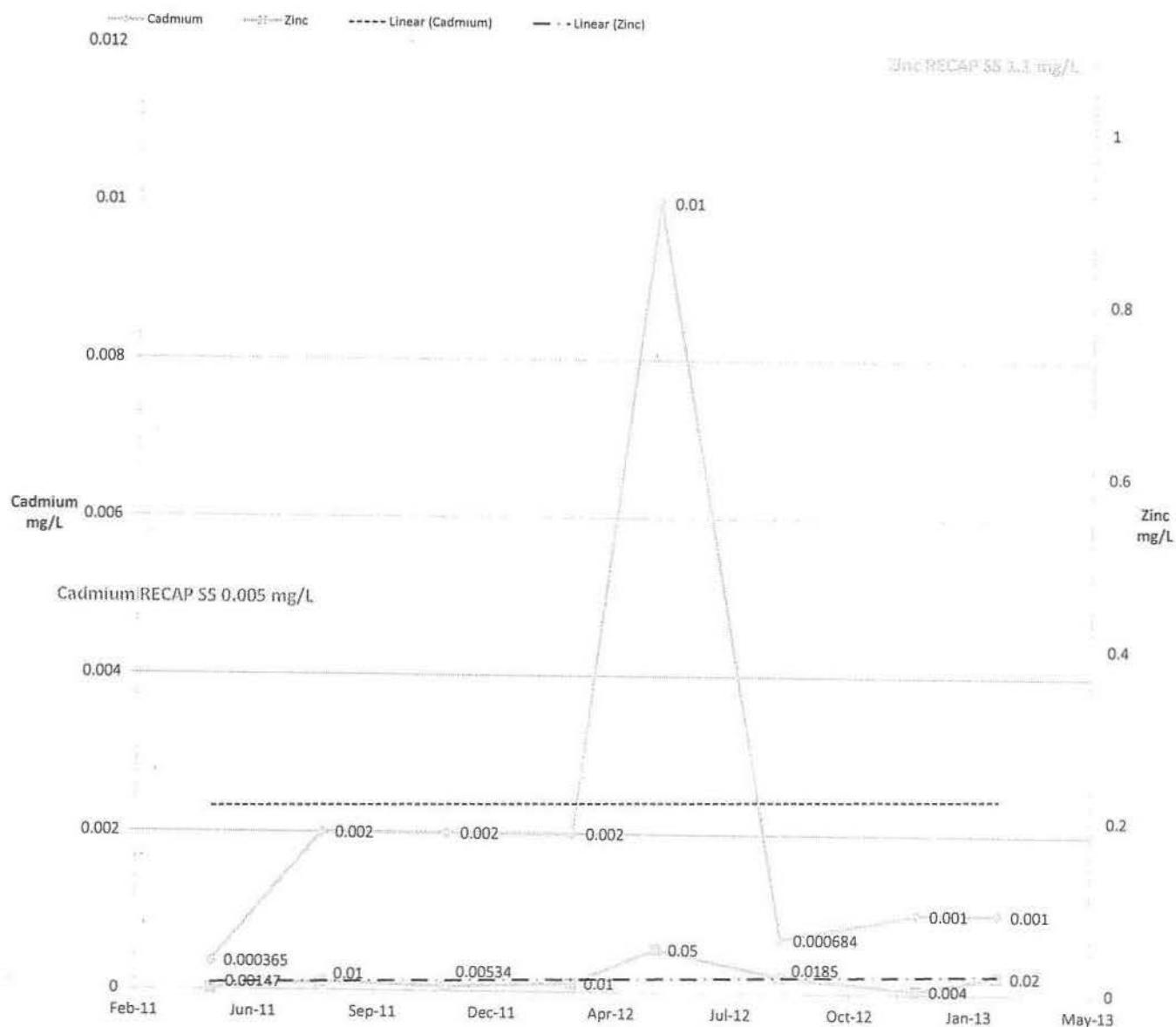
DW-4 Arsenic and Manganese



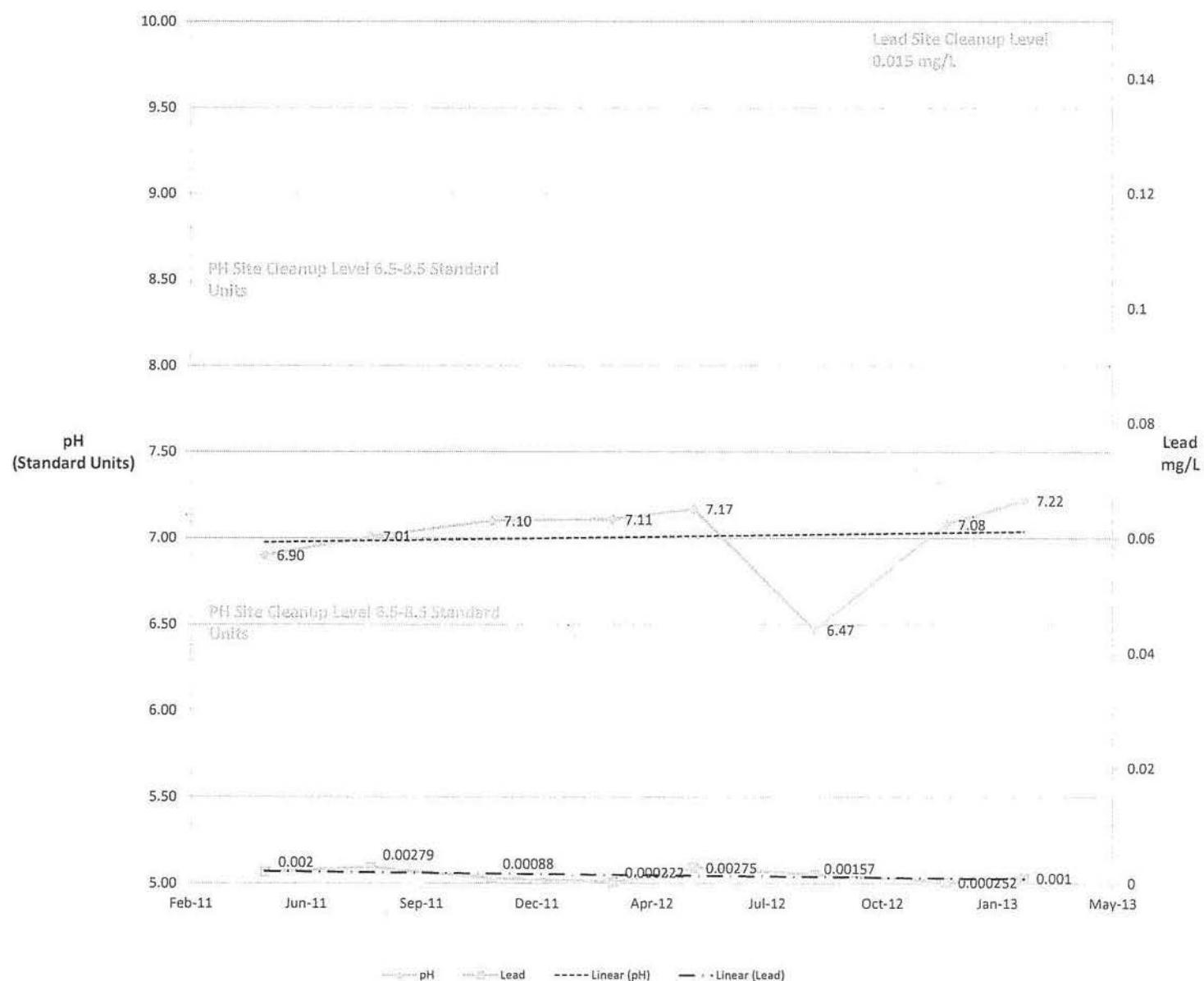
DW-4 Nickel and Thallium



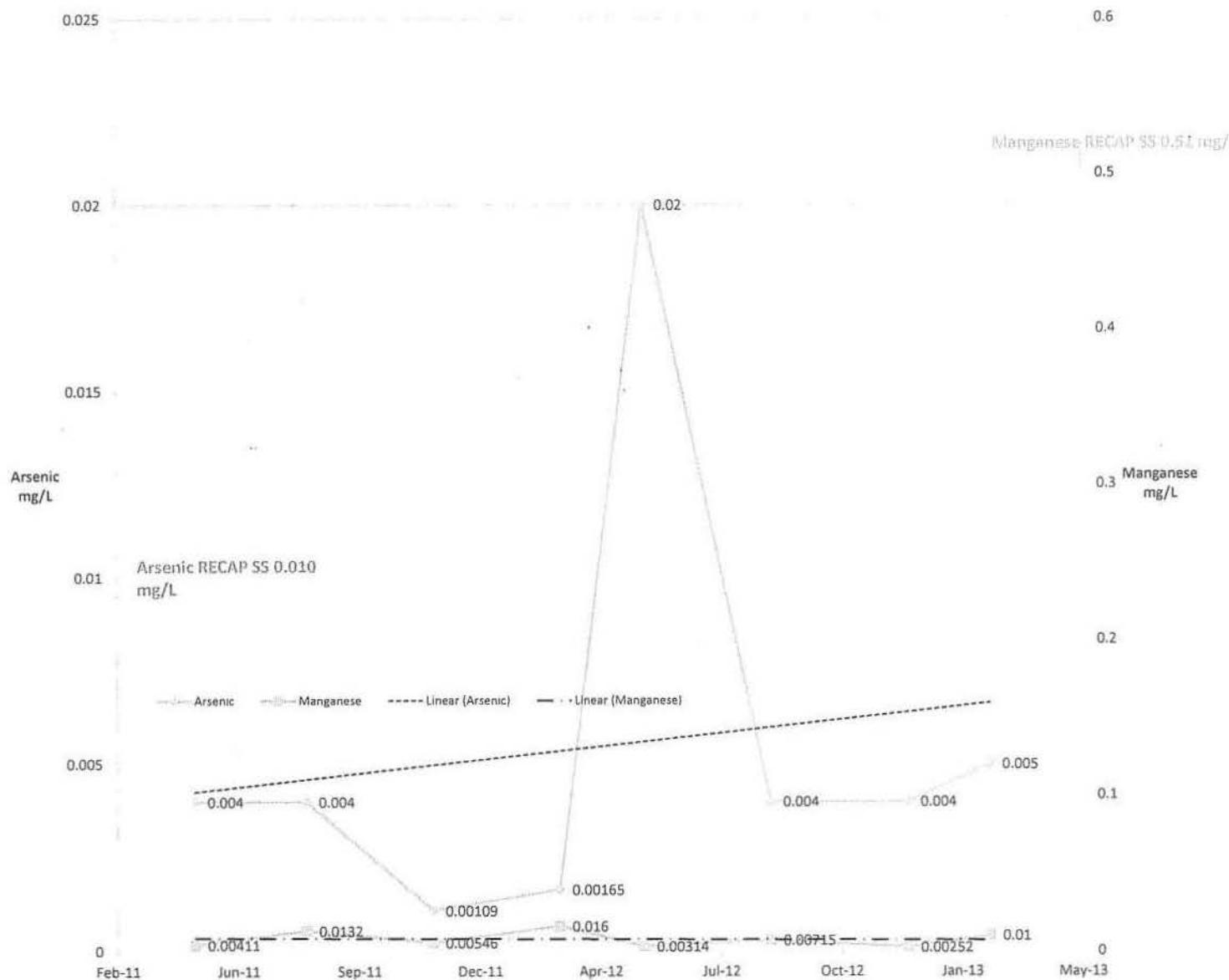
DW-4 Cadmium and Zinc



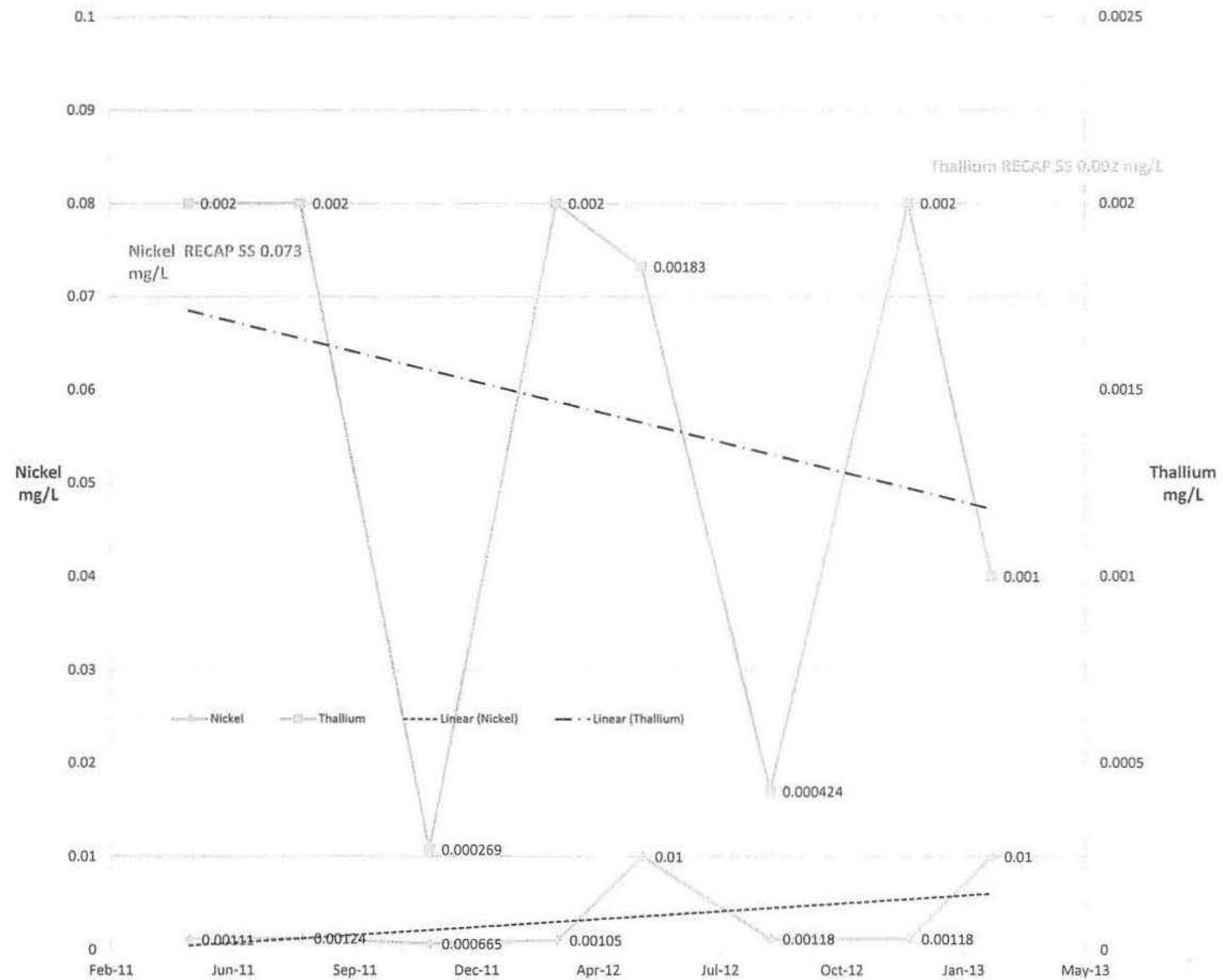
MW-A pH and Lead



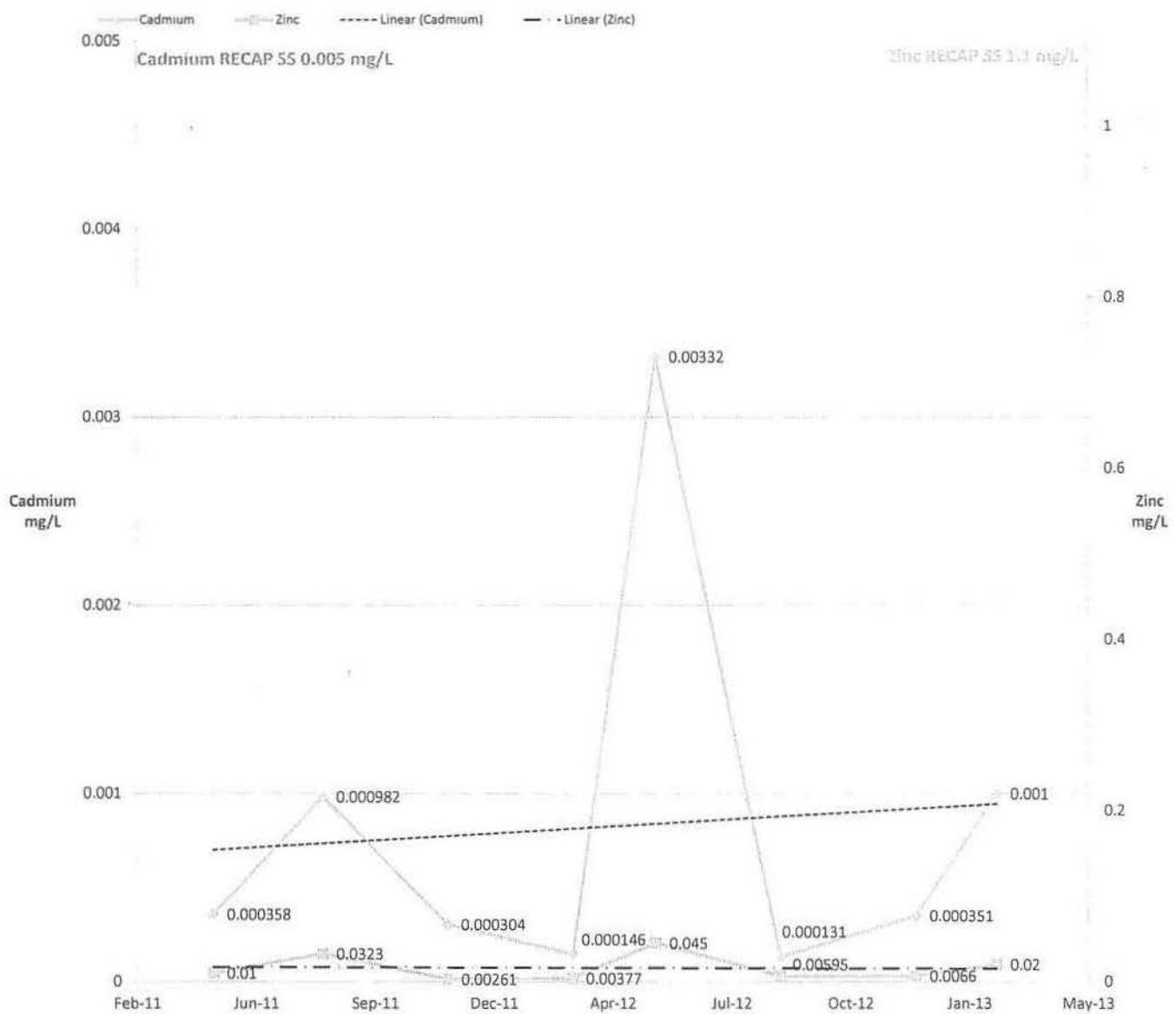
MW-A Arsenic and Manganese



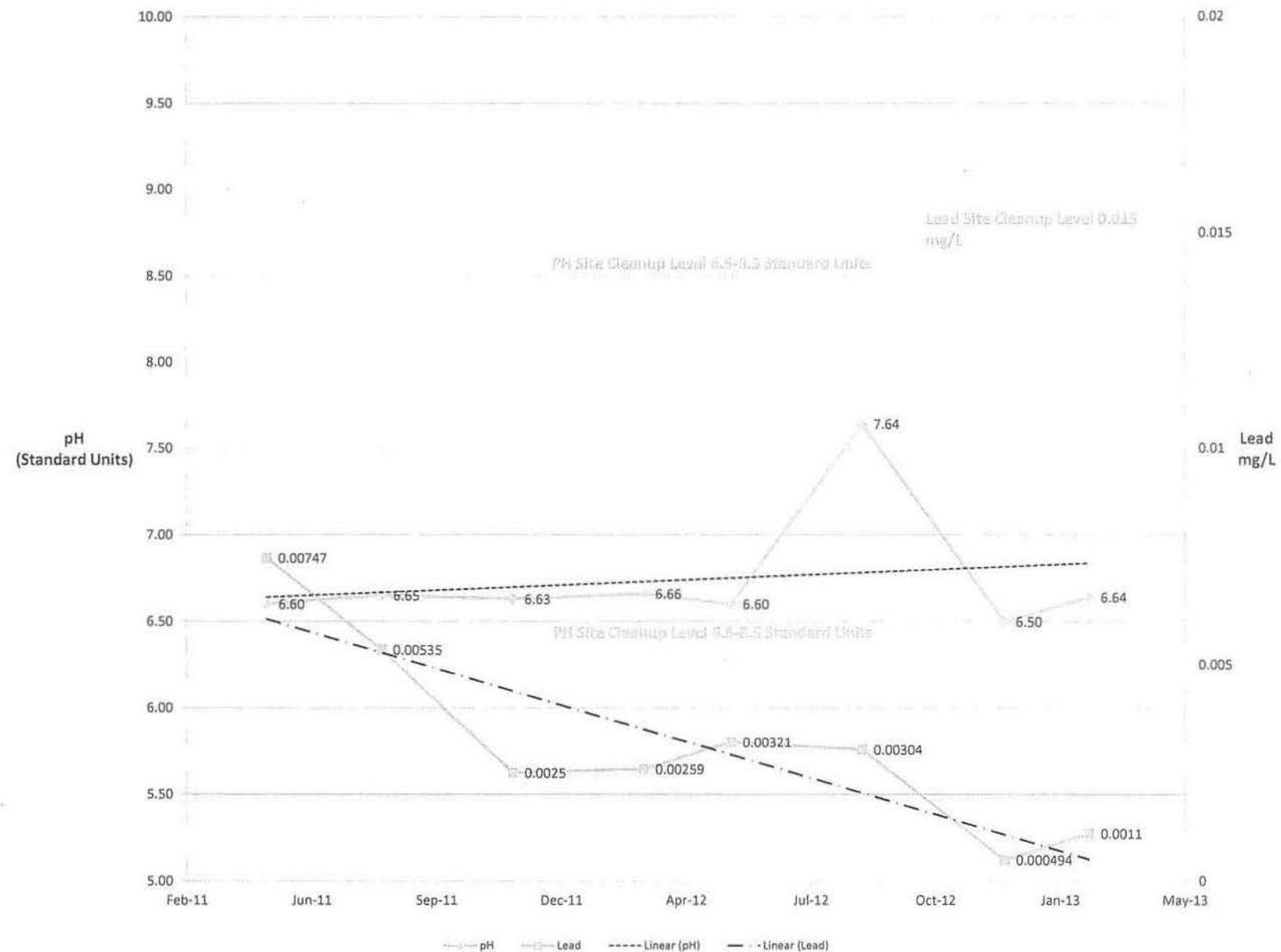
MW-A Nickel and Thallium



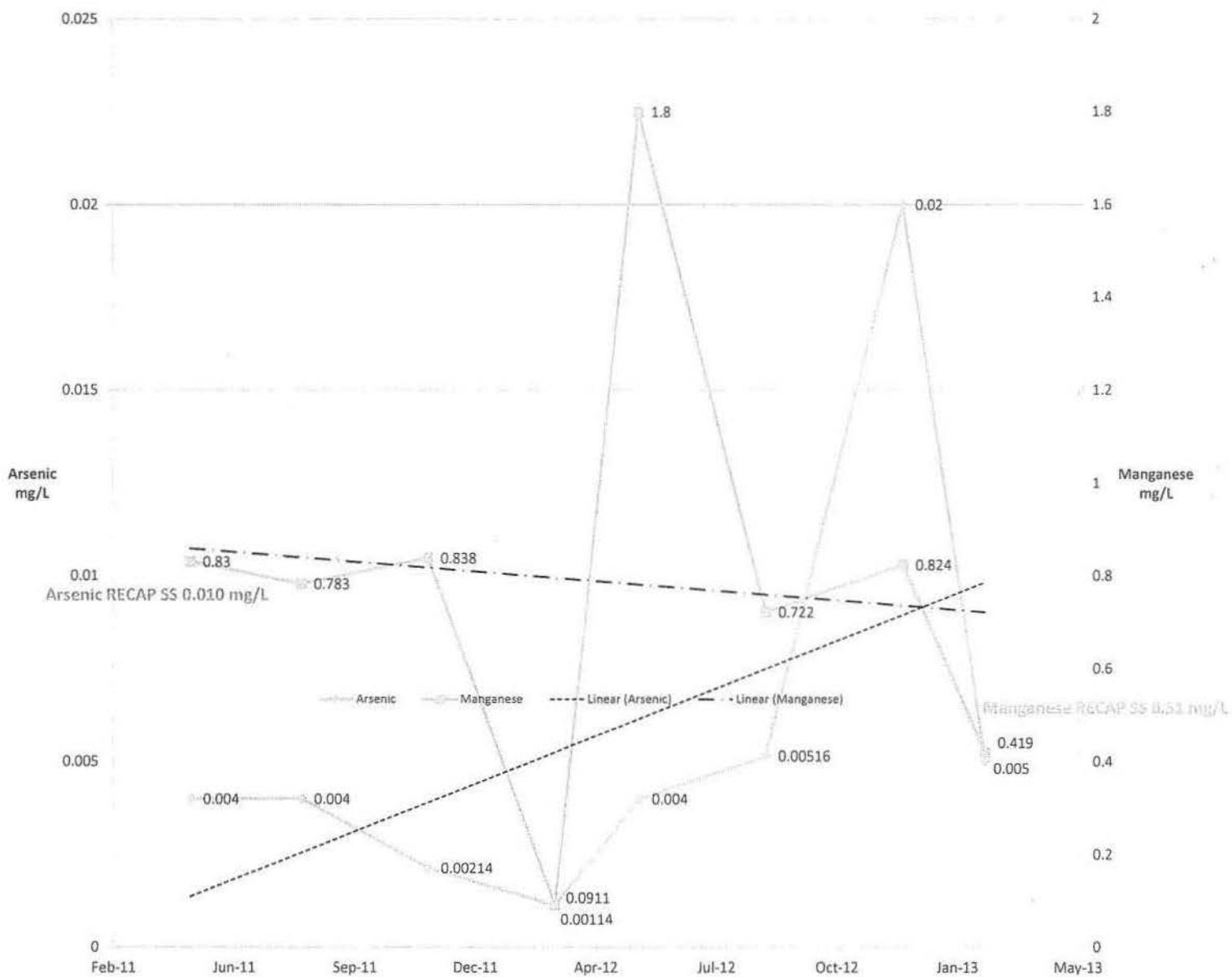
MW-A Cadmium and Zinc



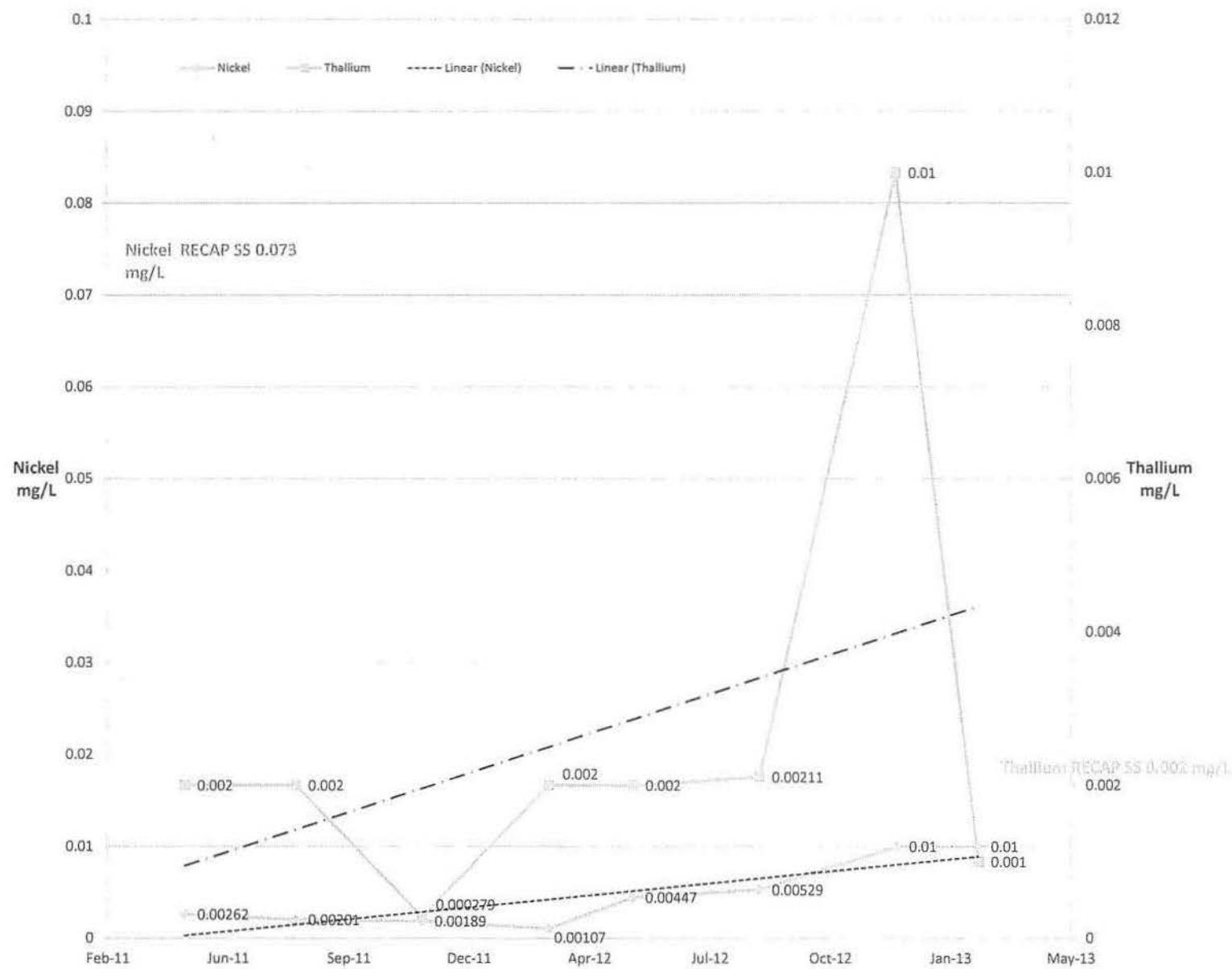
MW-3 pH and Lead



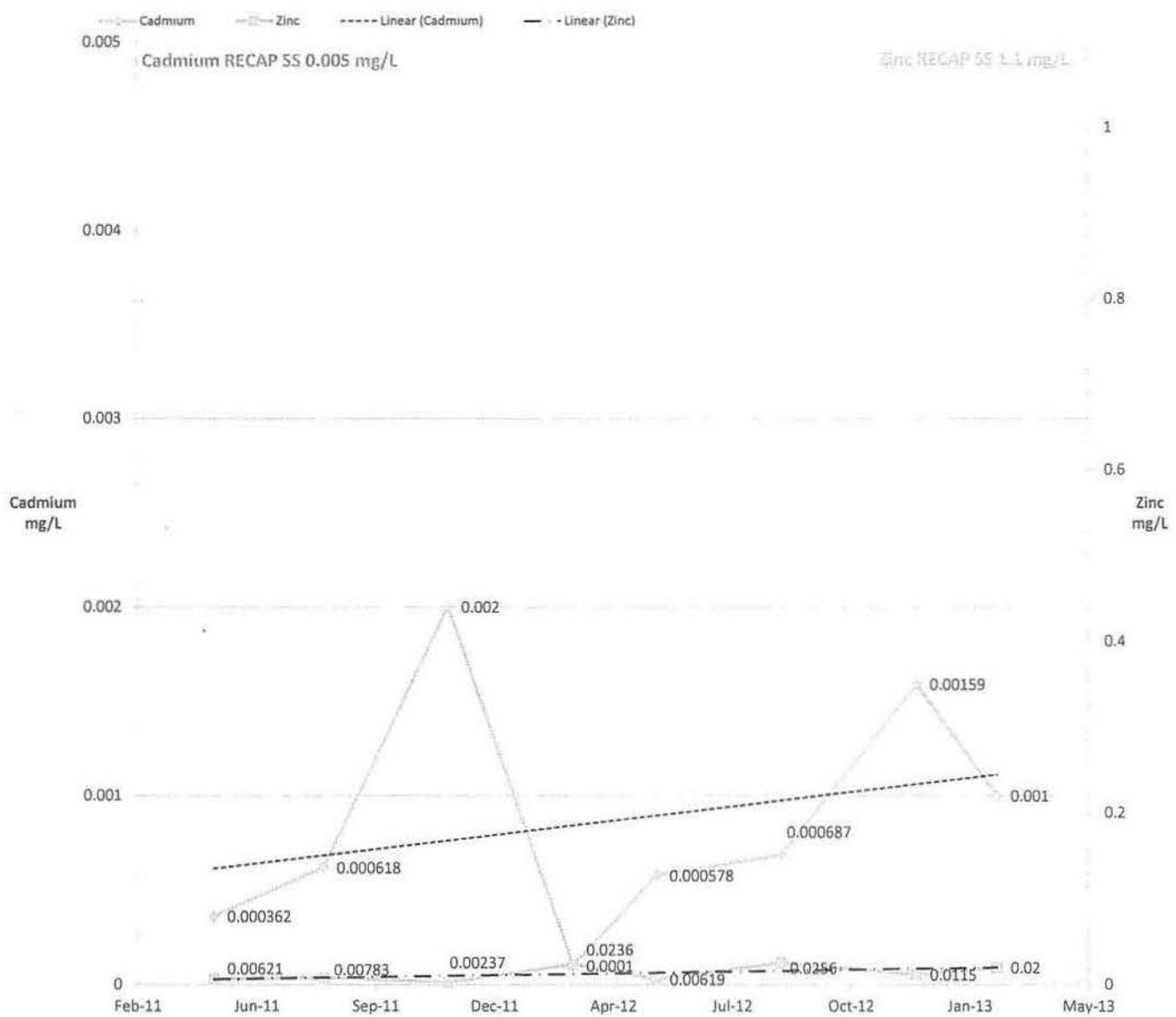
MW-3 Arsenic and Manganese

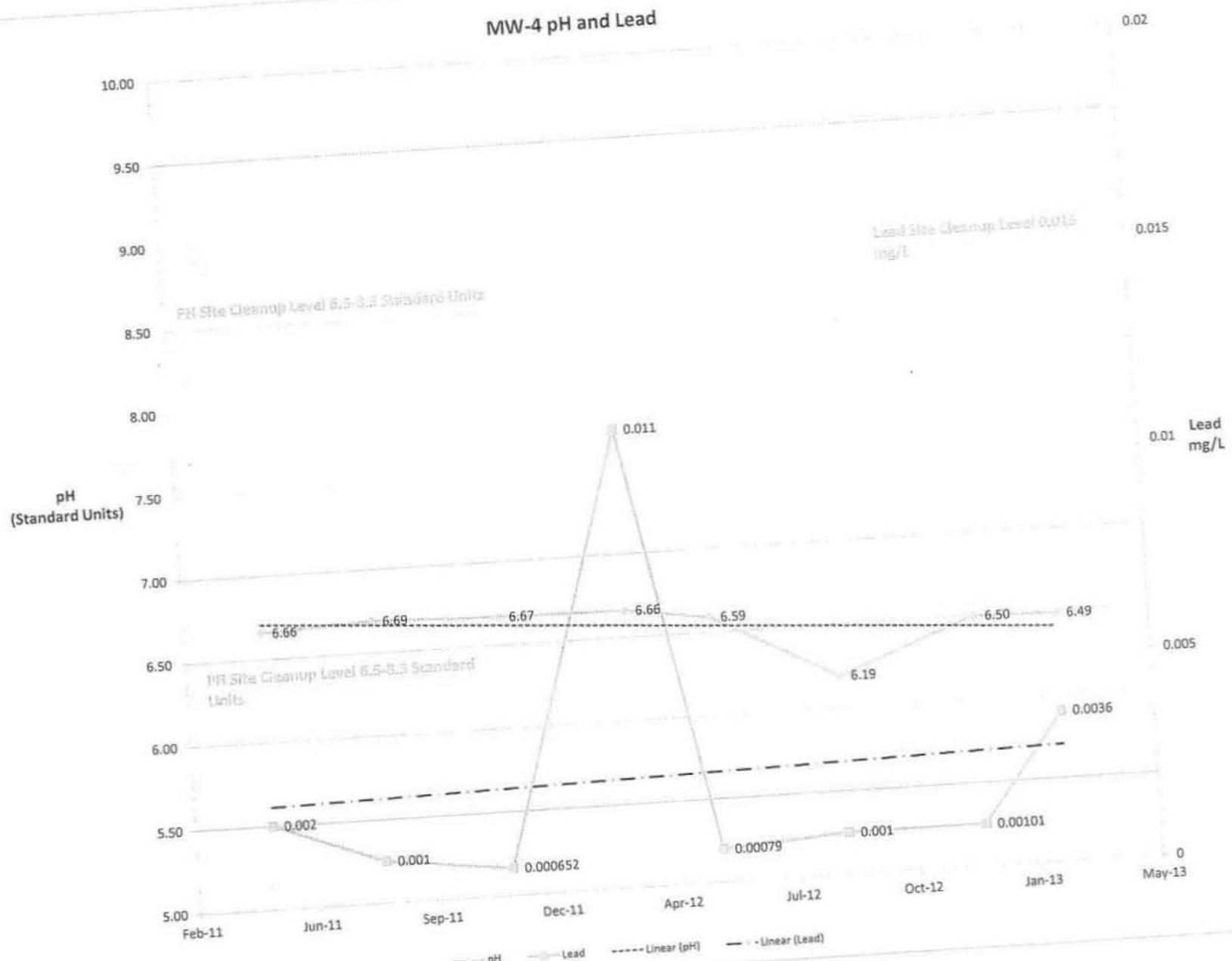


MW-3 Nickel and Thallium

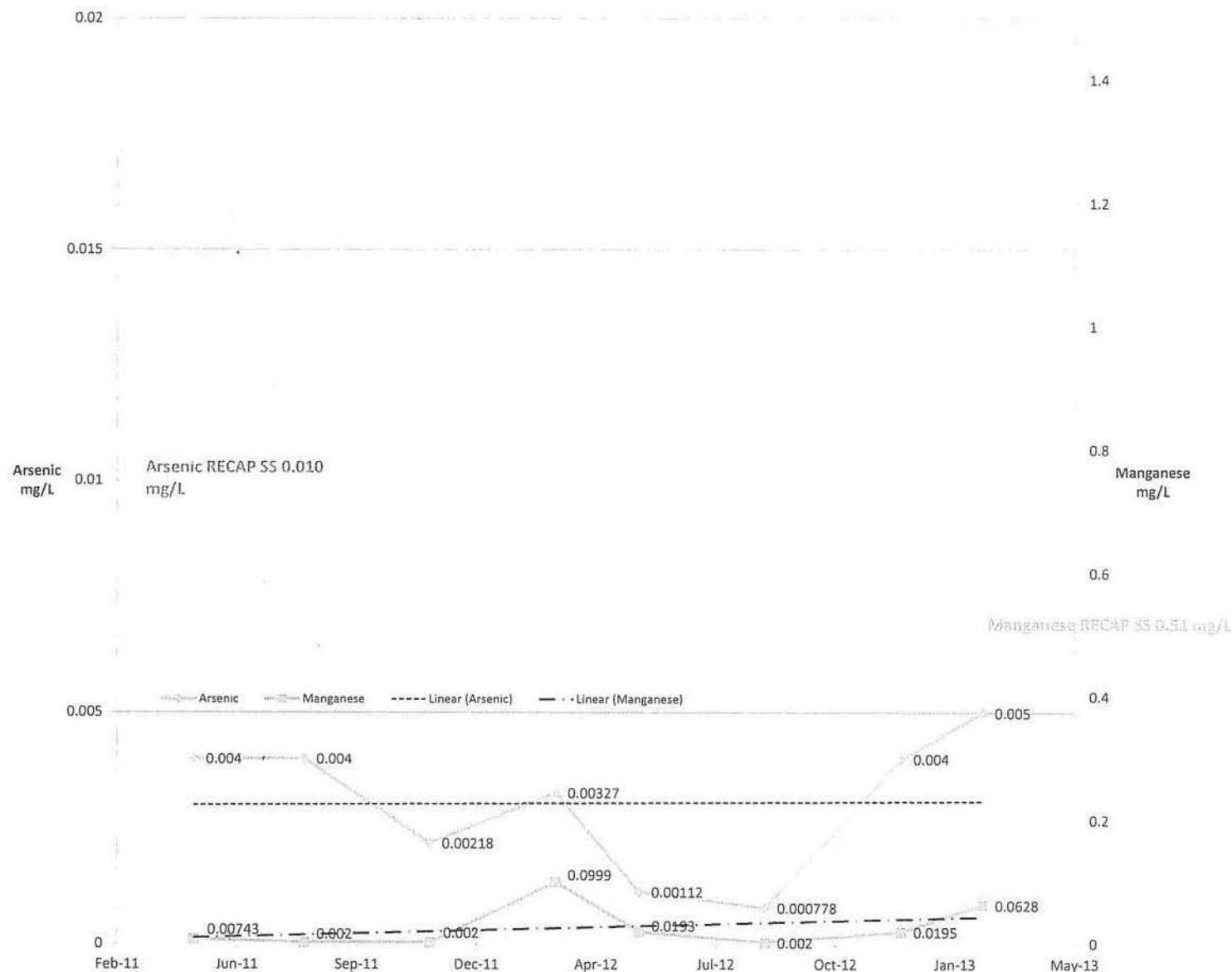


MW-3 Cadmium and Zinc

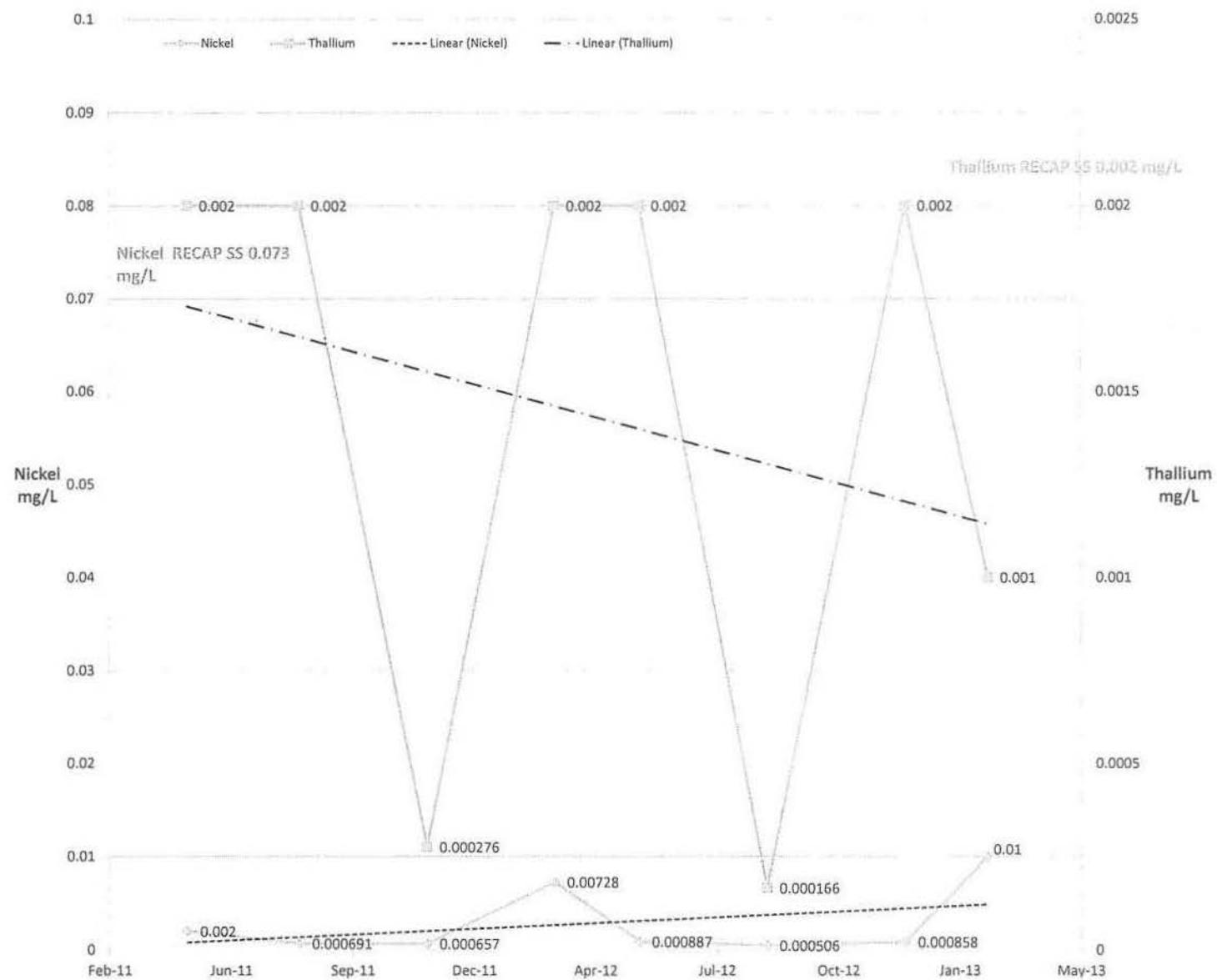




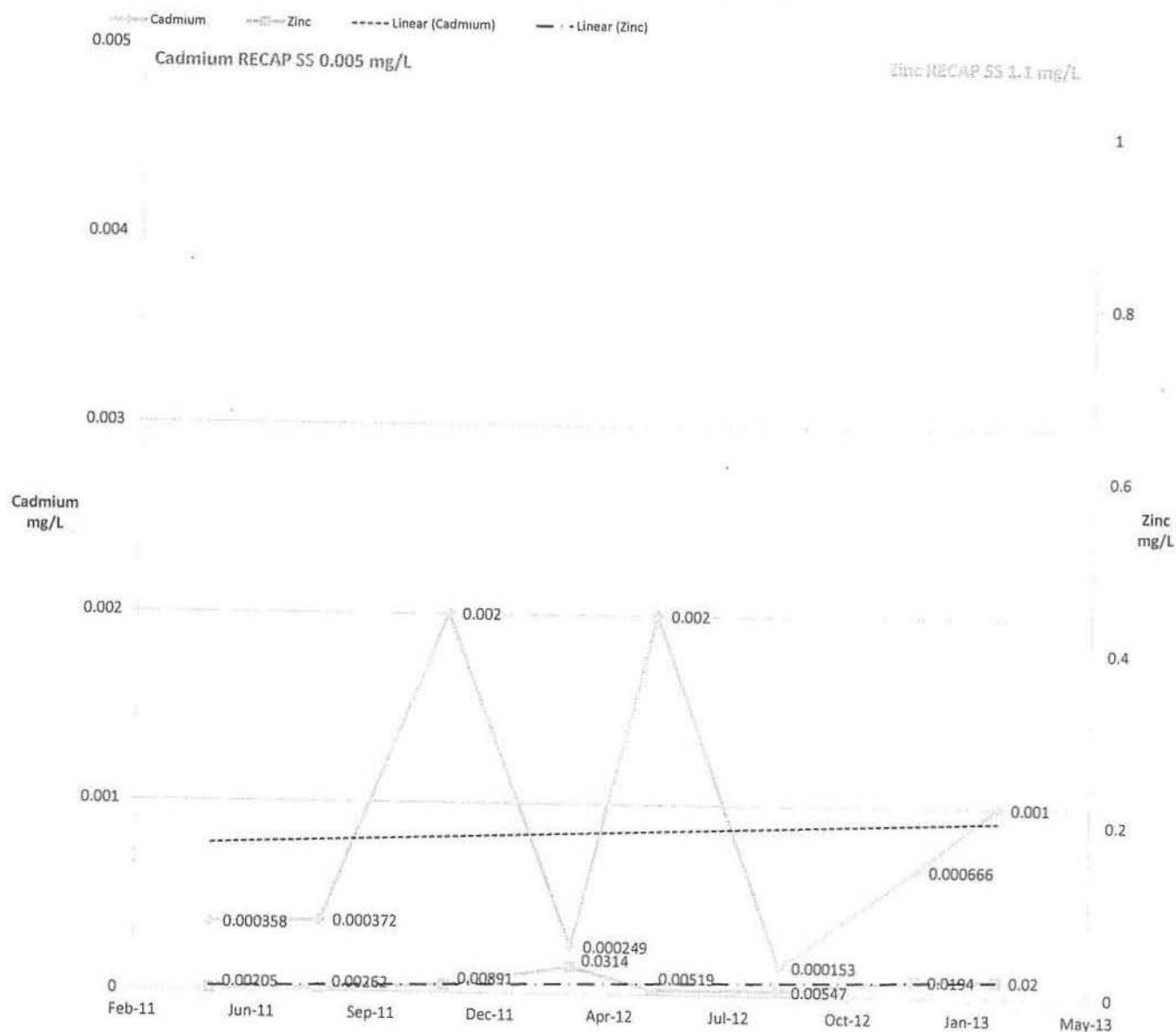
MW-4 Arsenic and Manganese



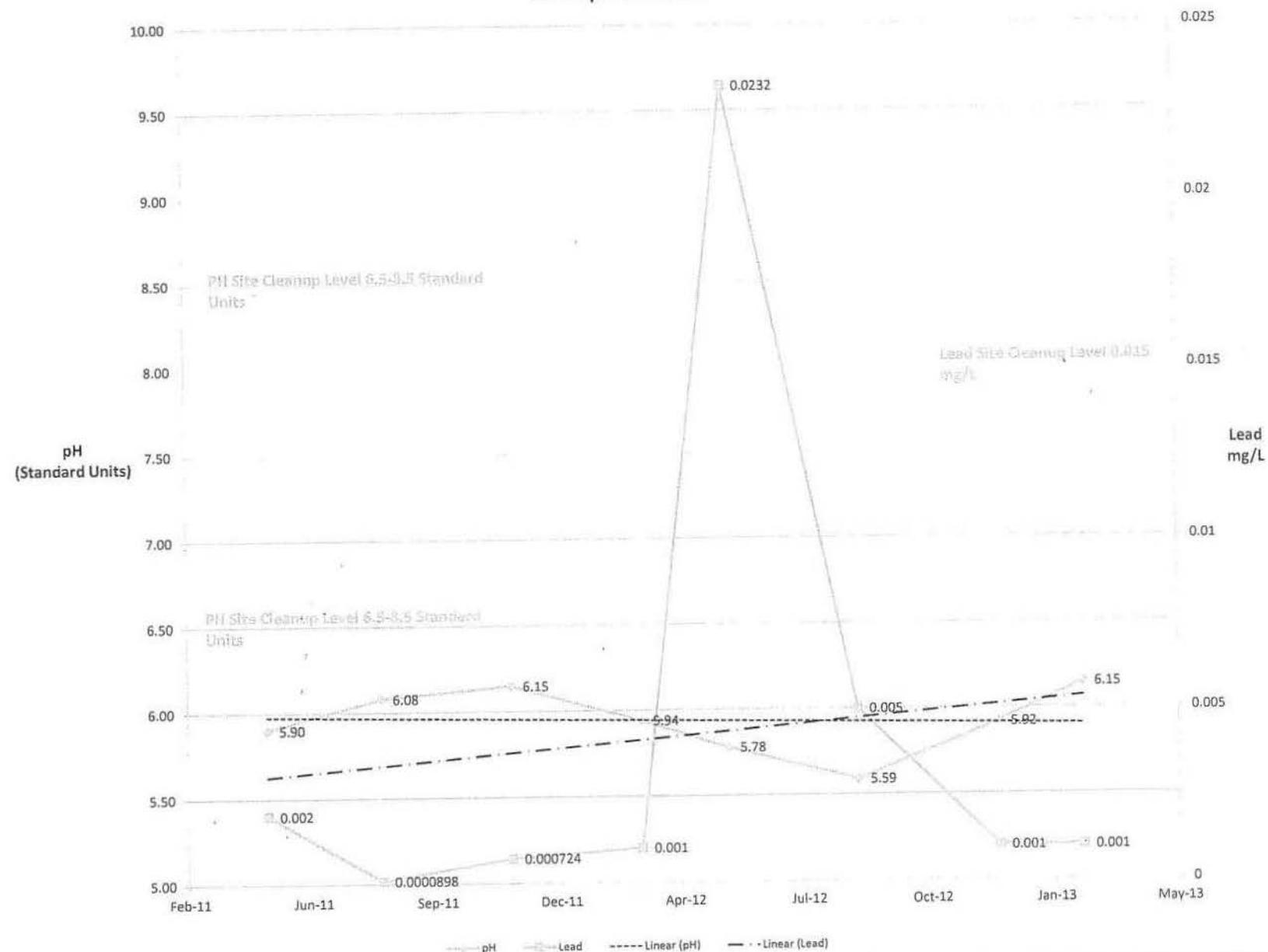
MW-4 Nickel and Thallium



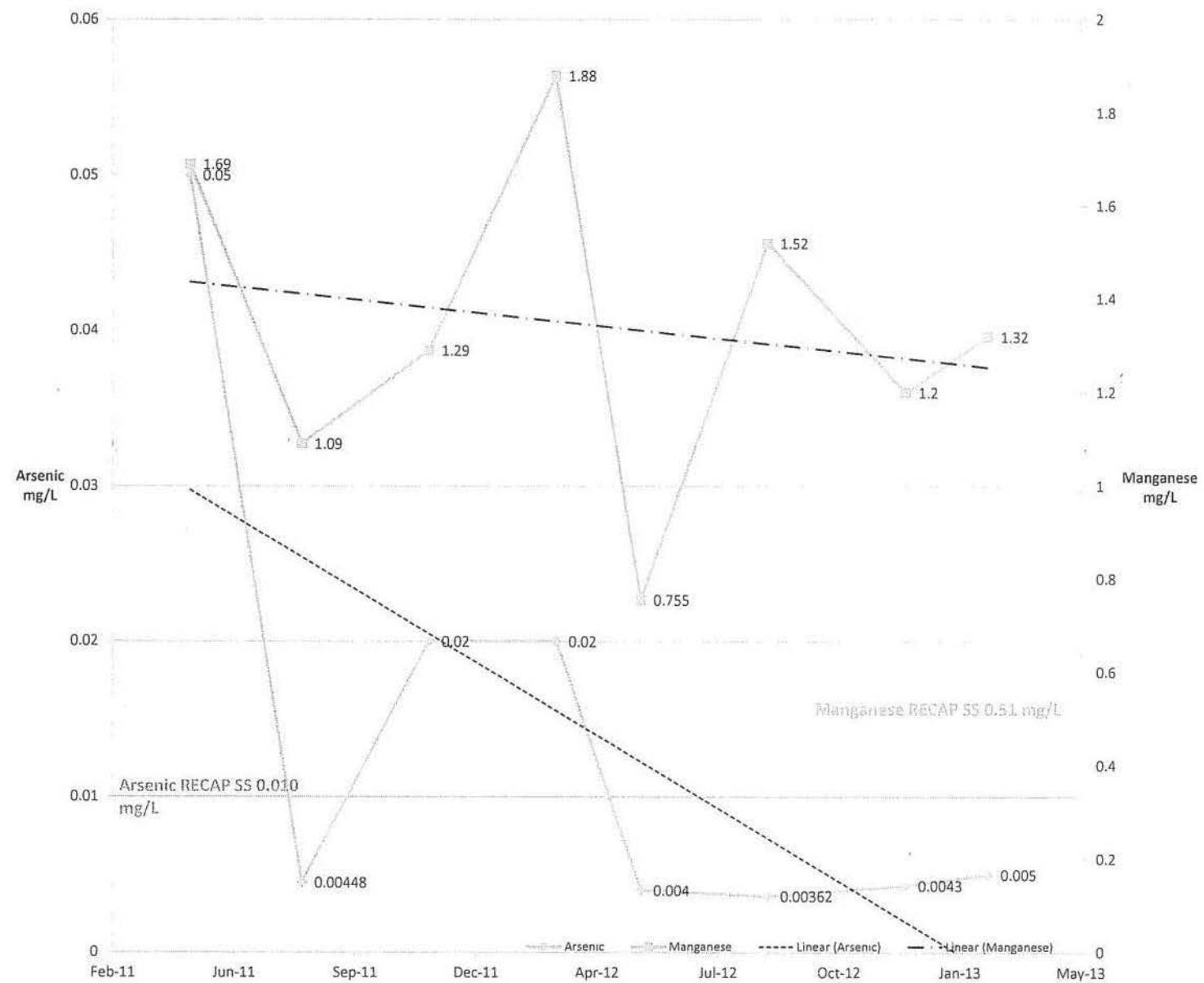
MW-4 Cadmium and Zinc



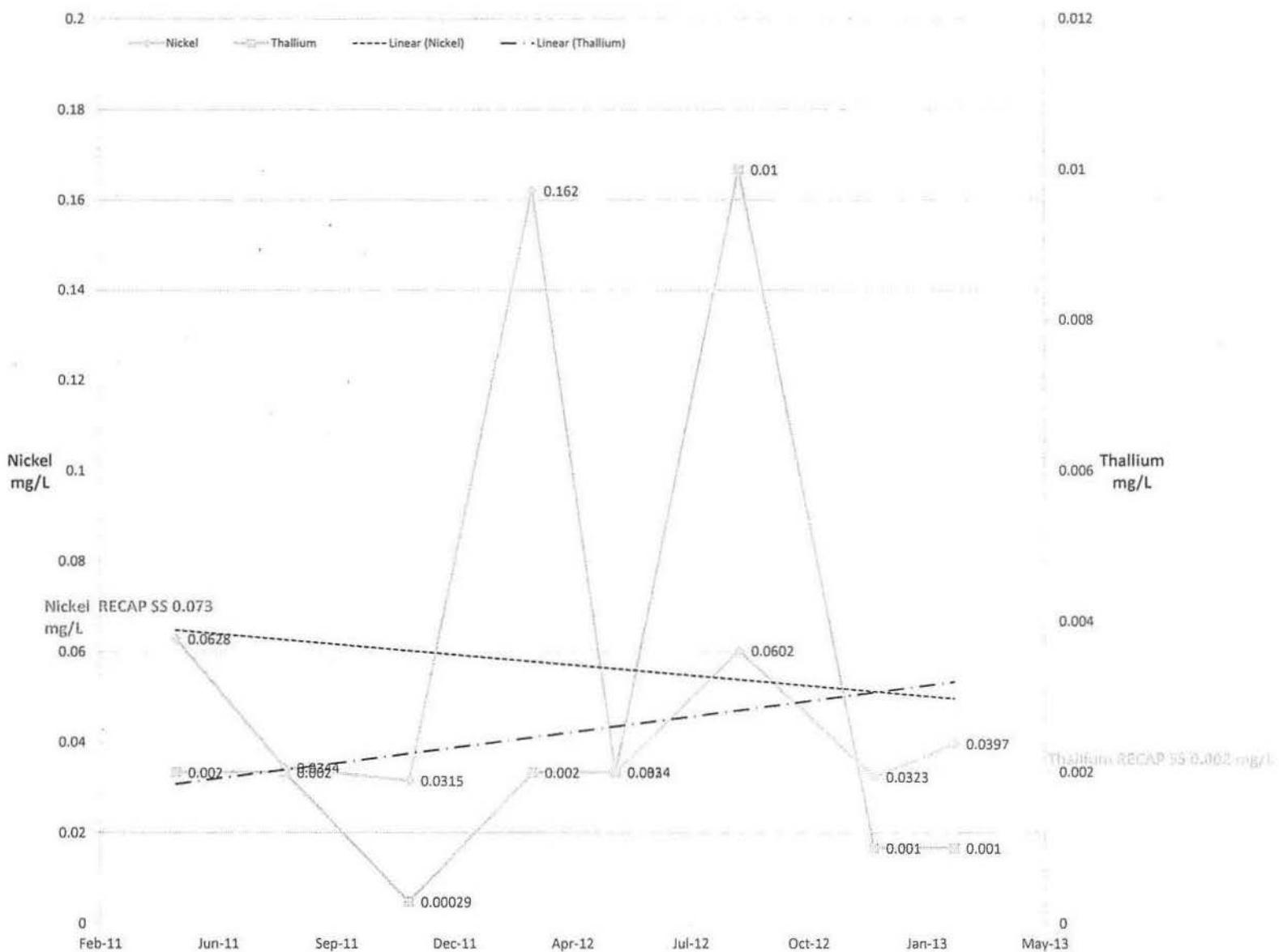
BA-01 pH and Lead



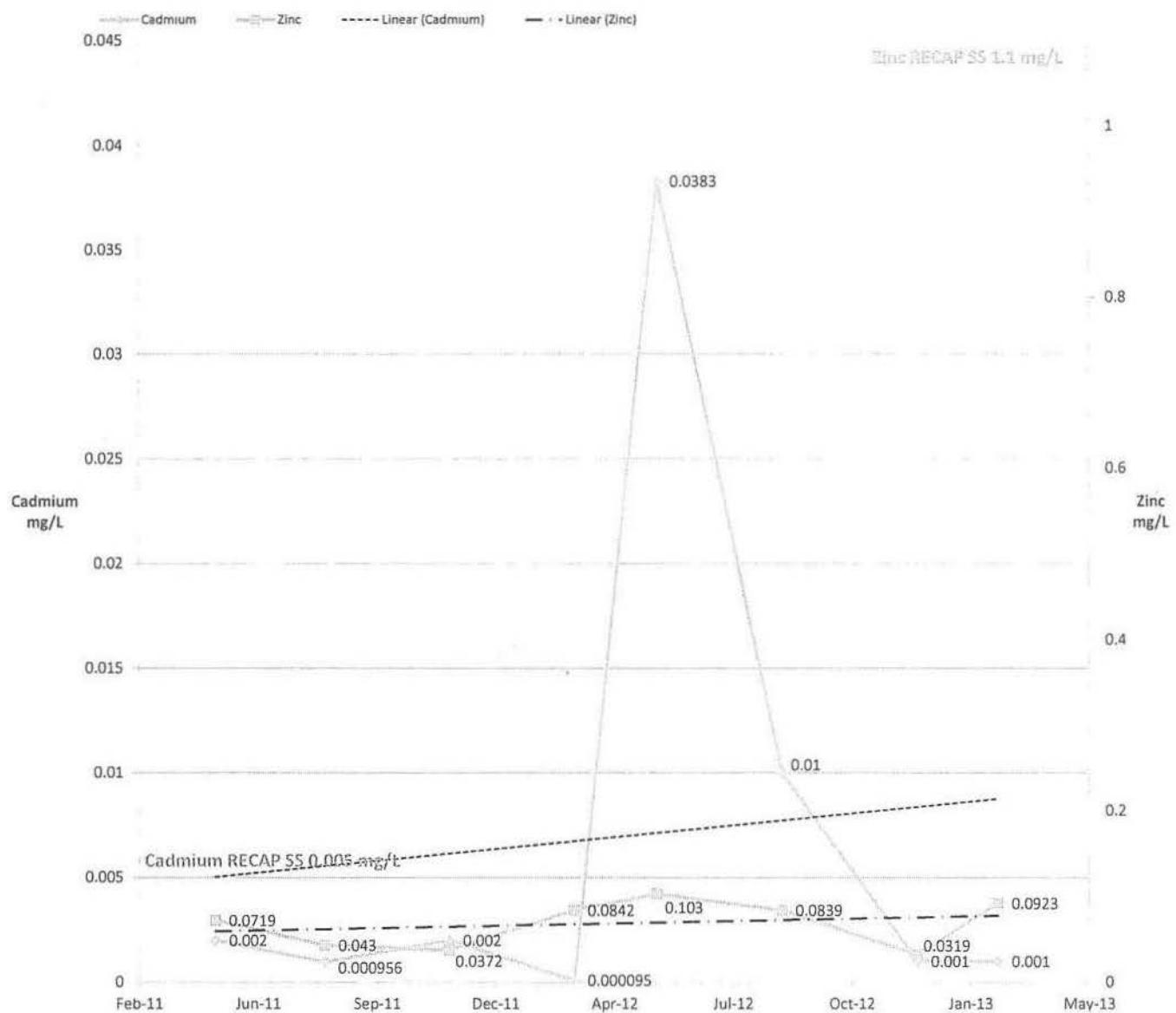
BA-01 Arsenic and Manganese

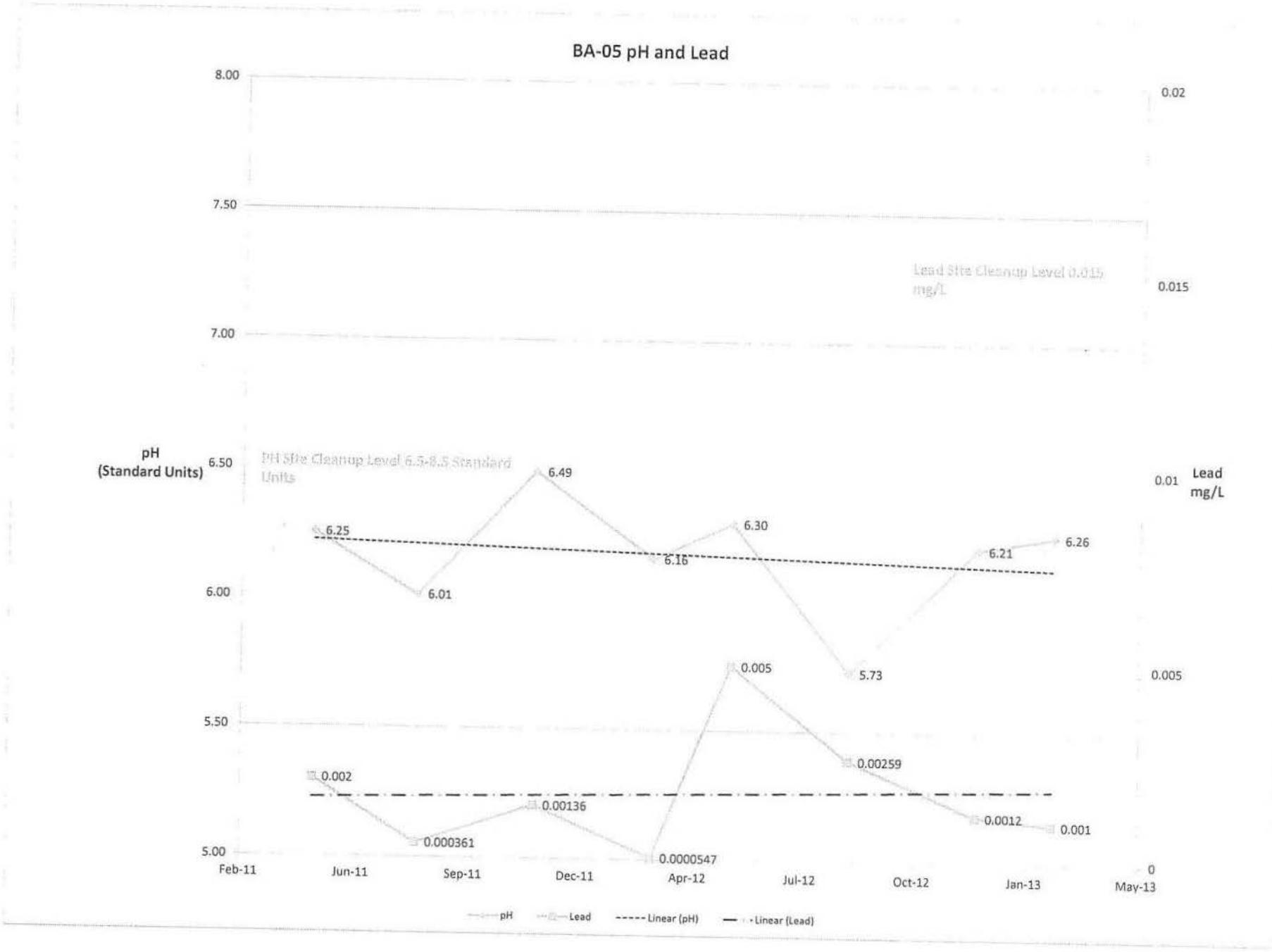


BA-01 Nickel and Thallium

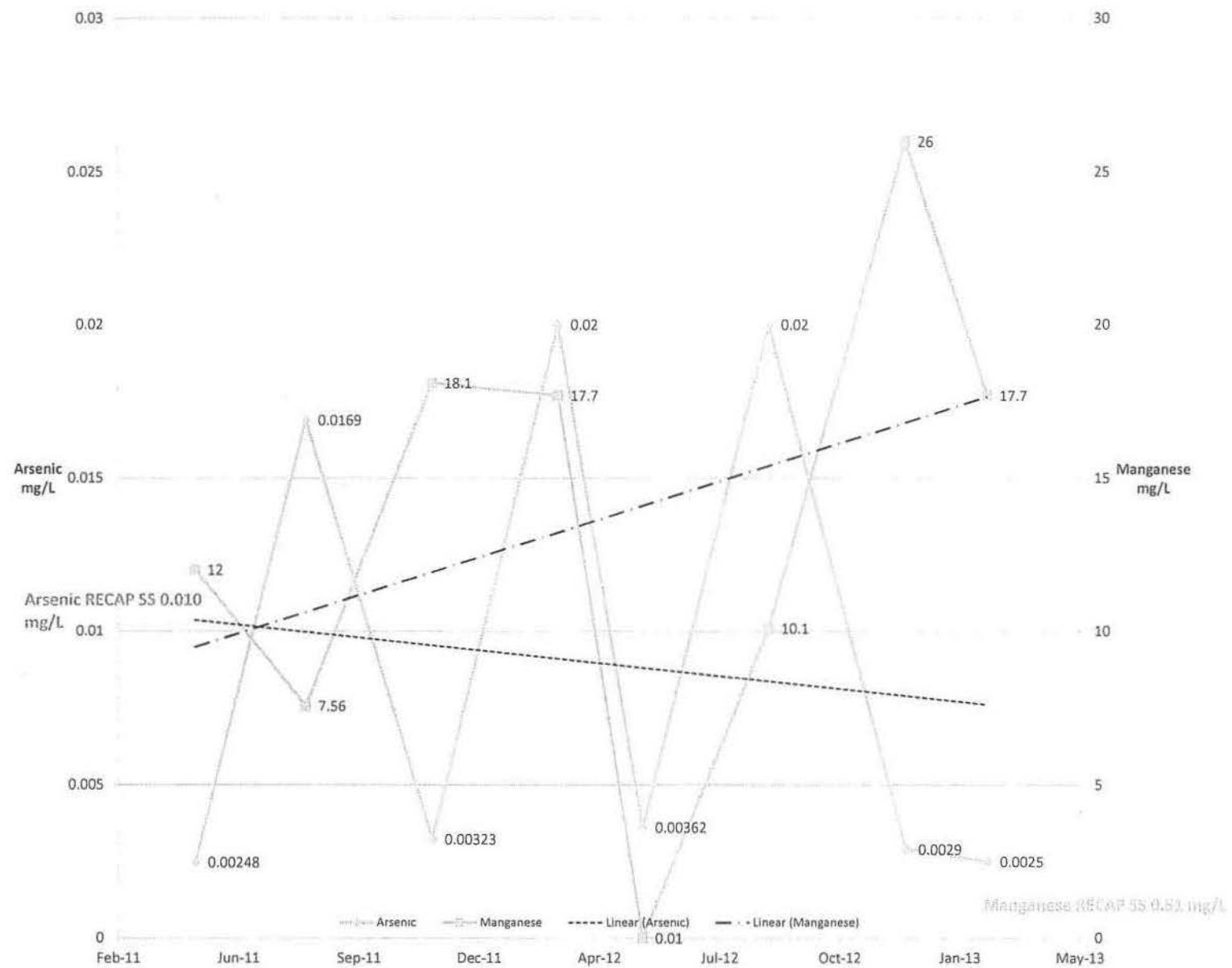


BA-01 Cadmium and Zinc

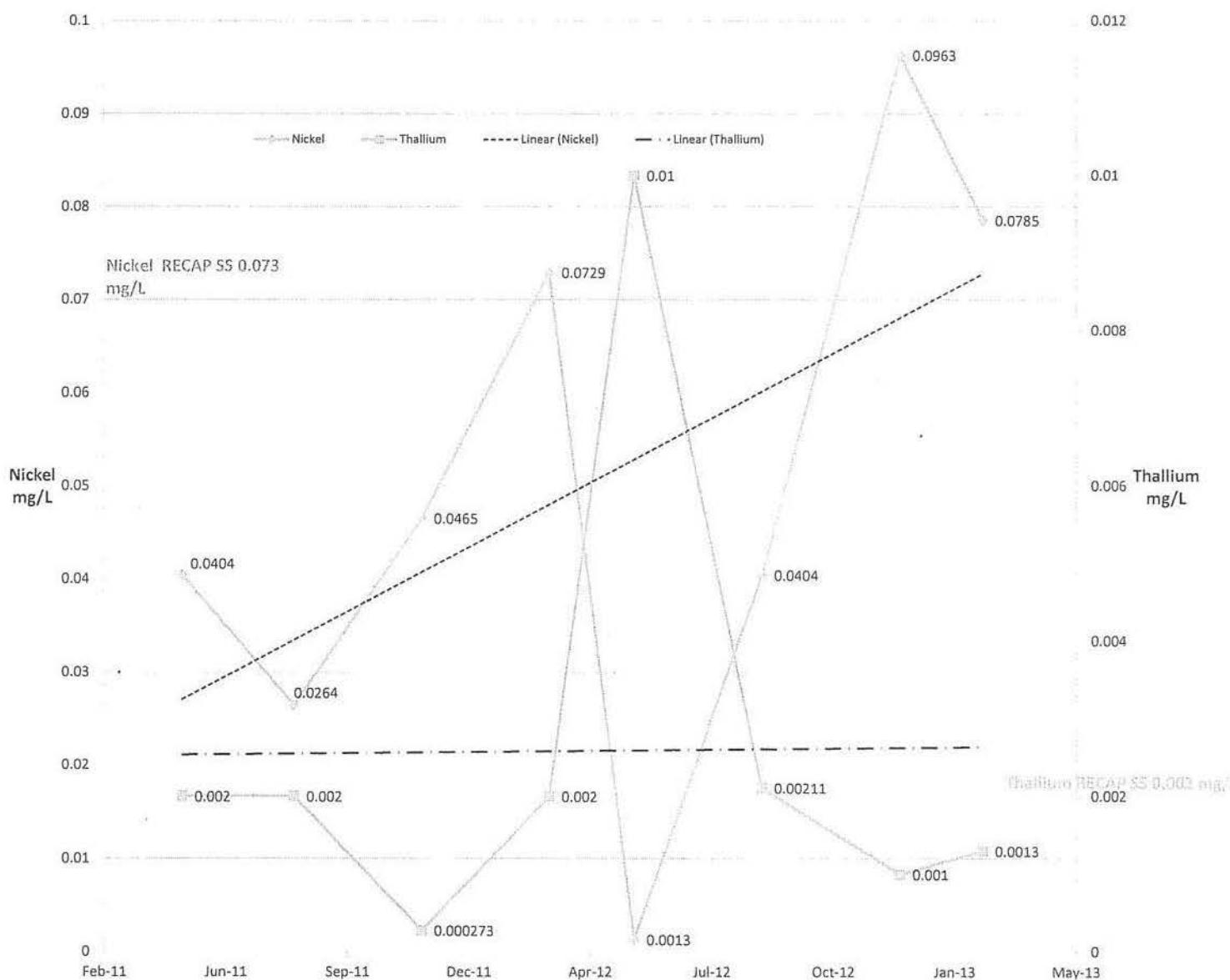




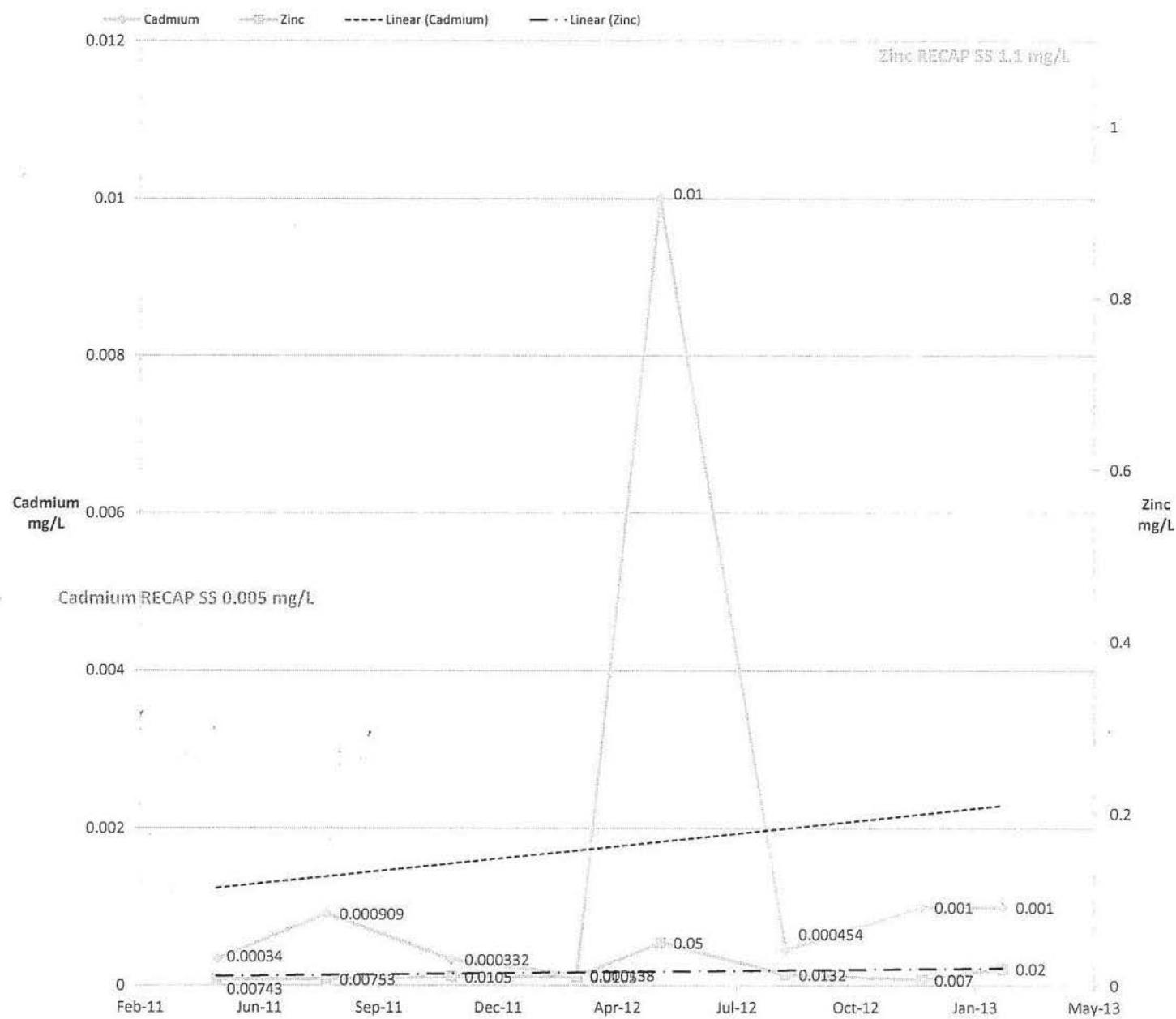
BA-05 Arsenic and Manganese



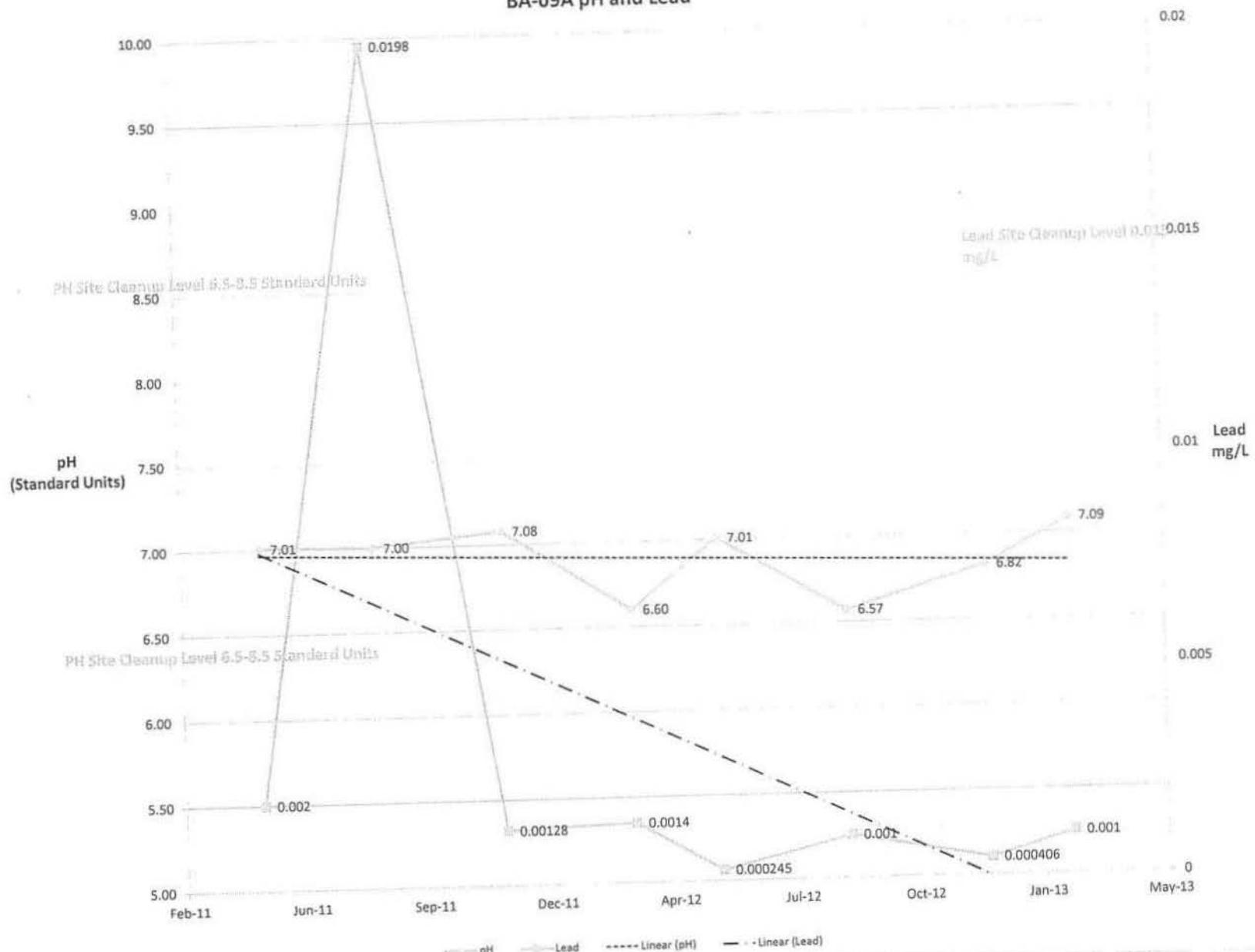
BA-05 Nickel and Thallium



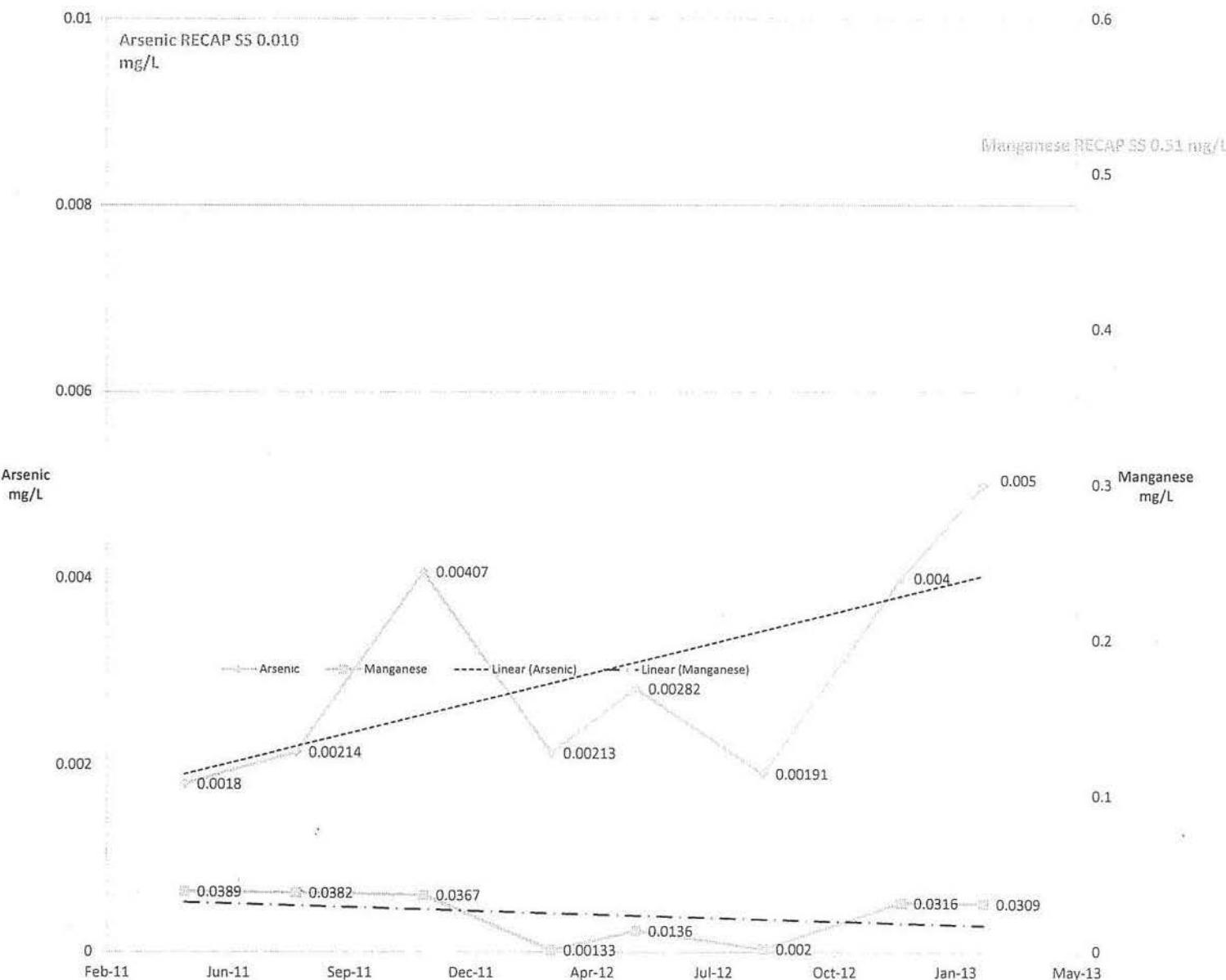
BA-05 Cadmium and Zinc



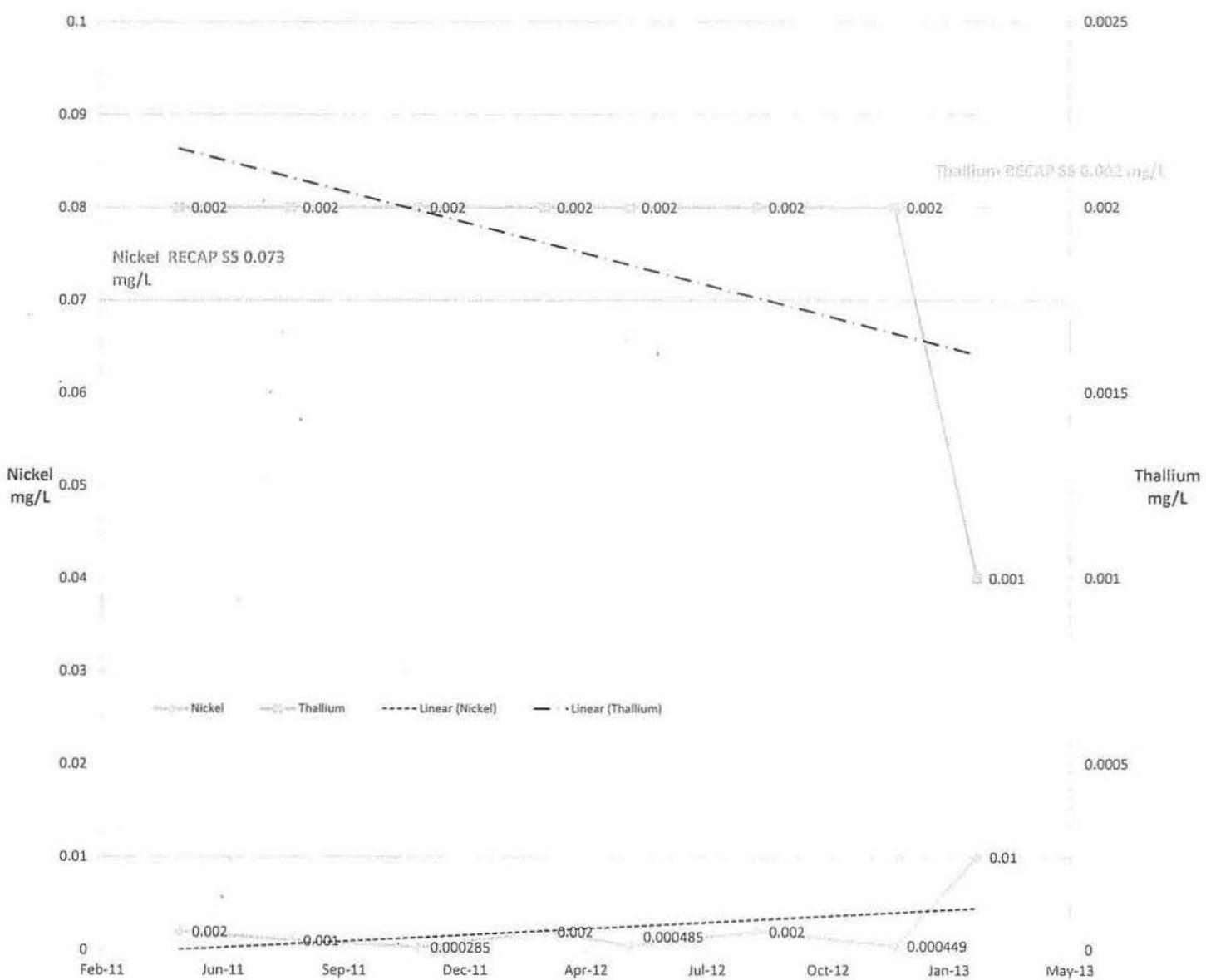
BA-09A pH and Lead



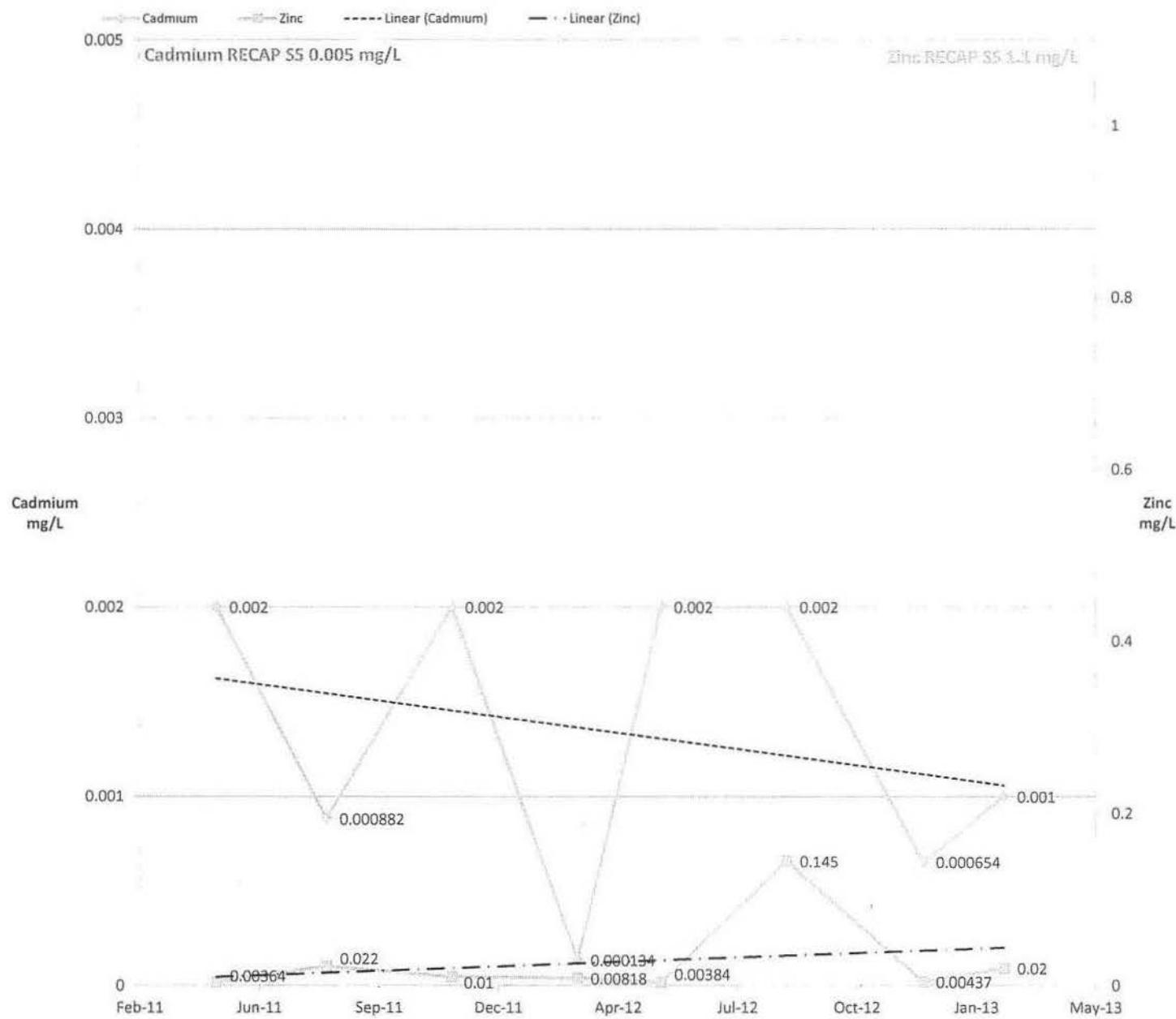
BA-09A Arsenic and Manganese

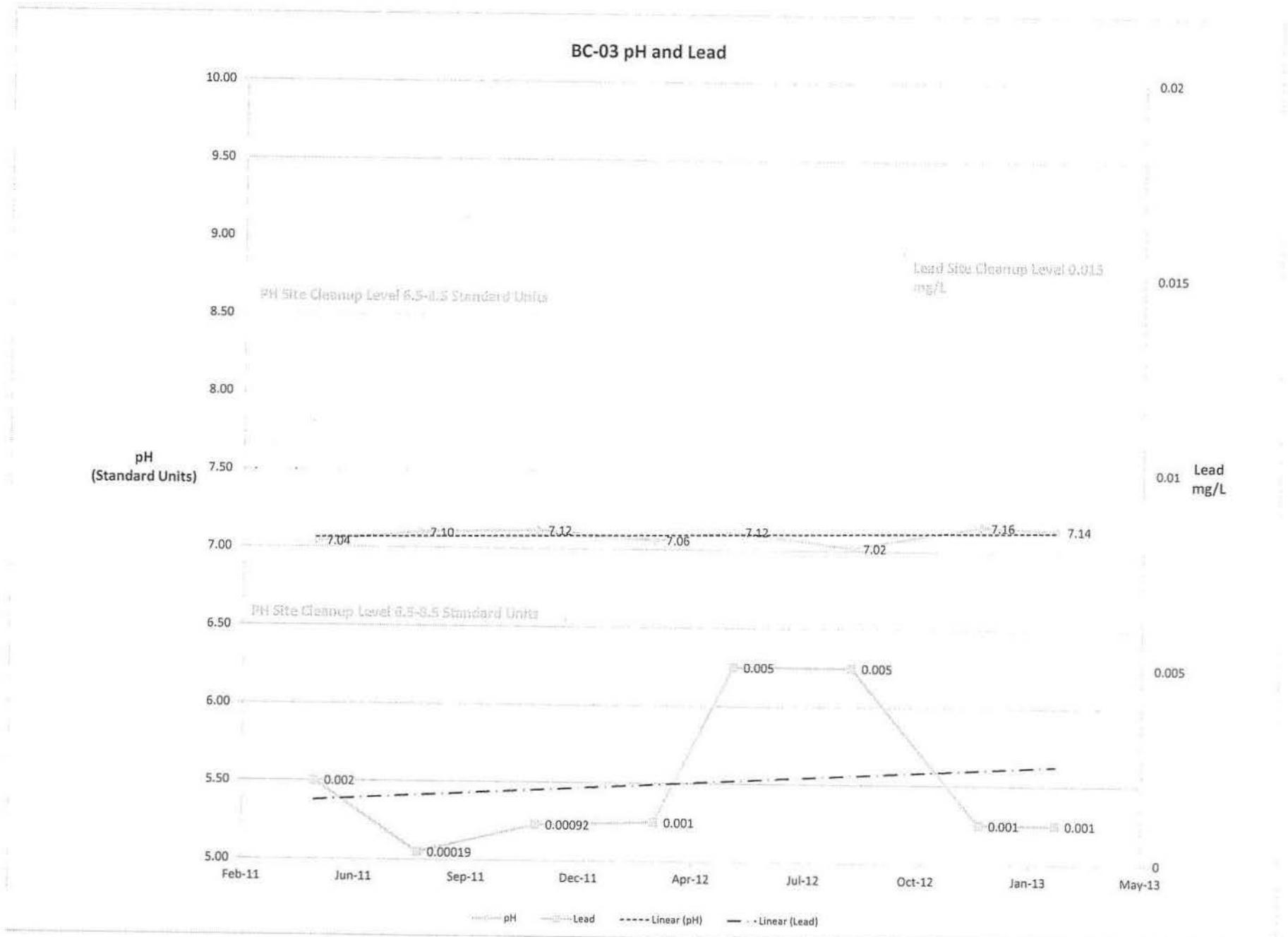


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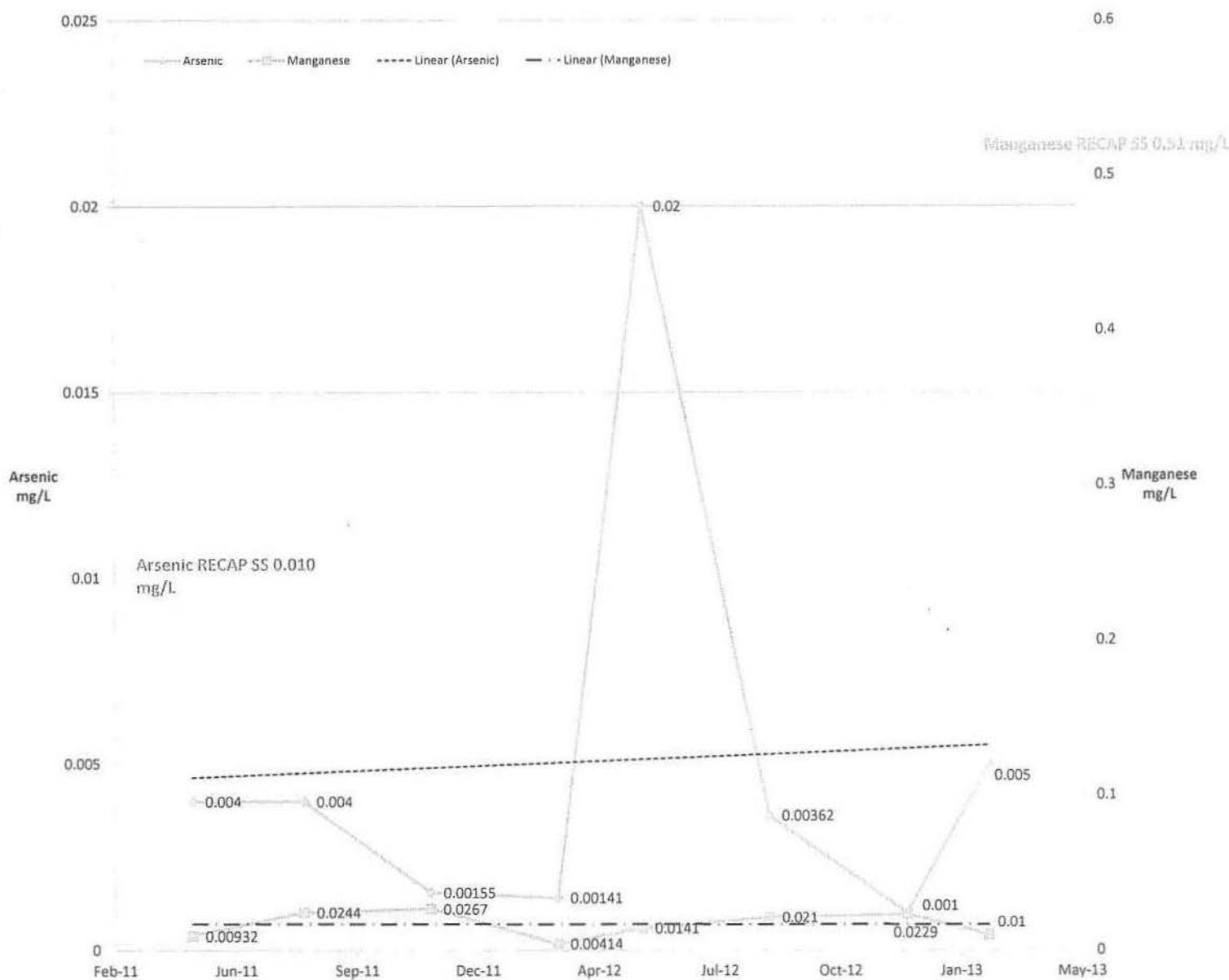


BA-09A Cadmium and Zinc

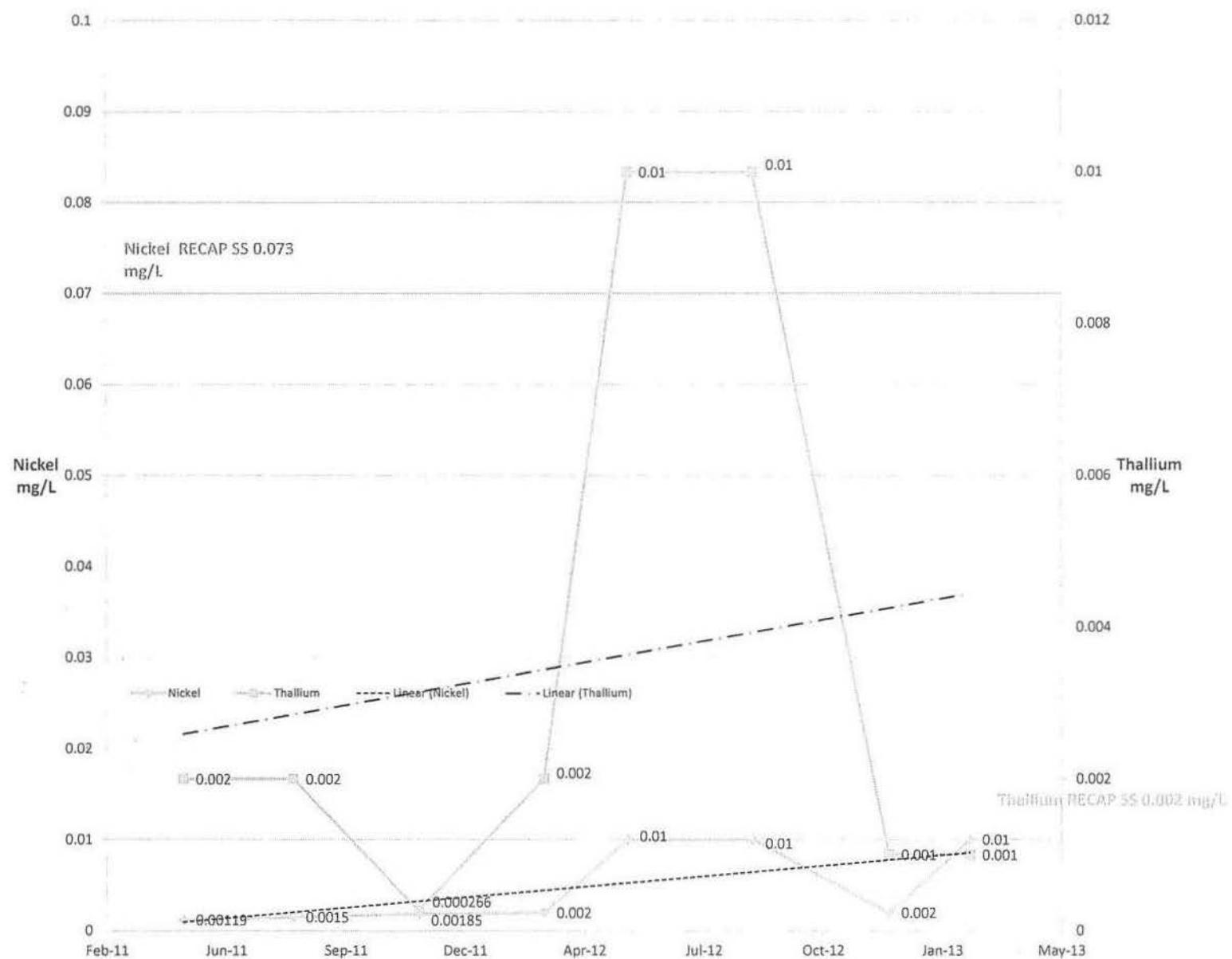




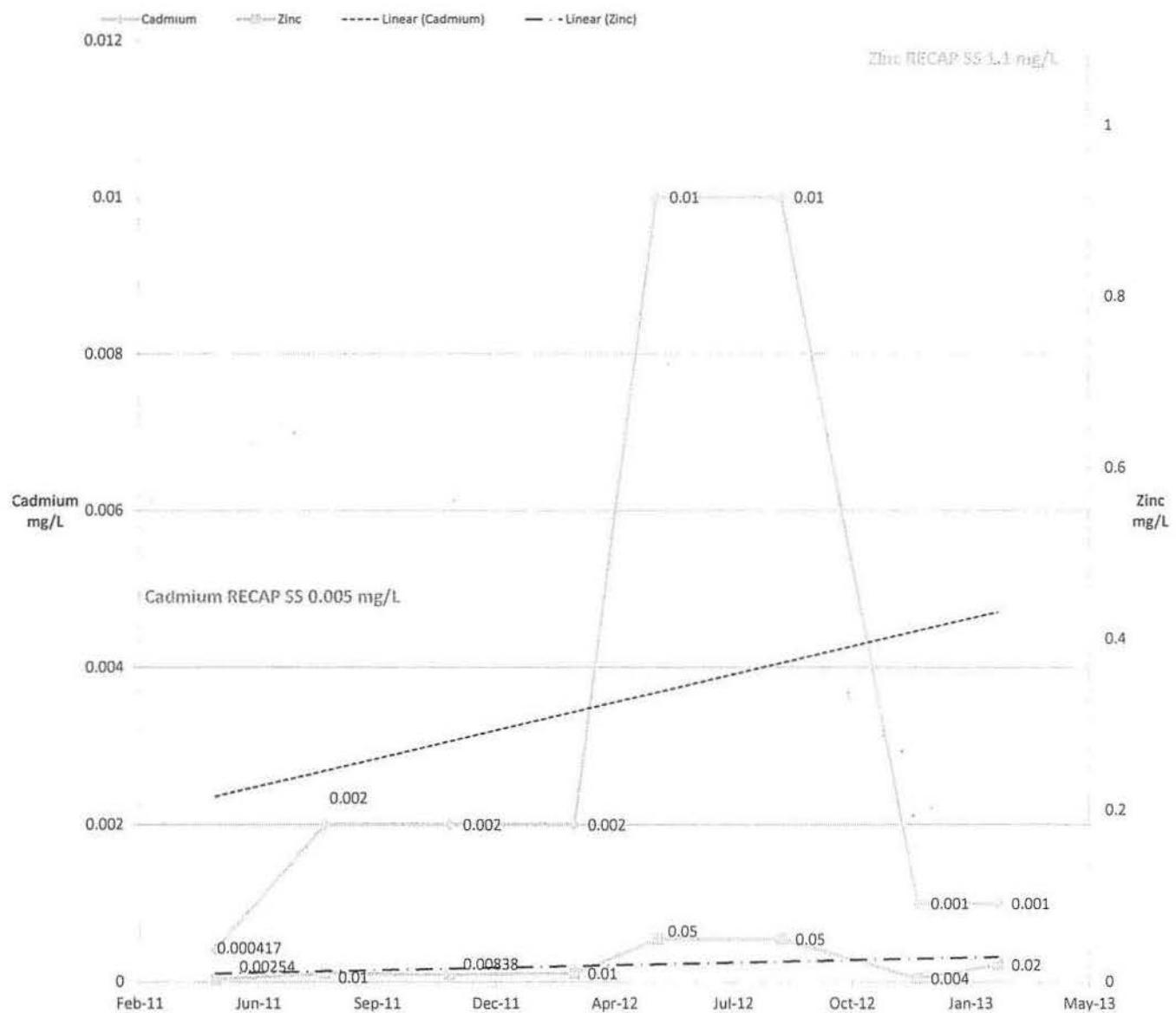
BC-03 Arsenic and Manganese

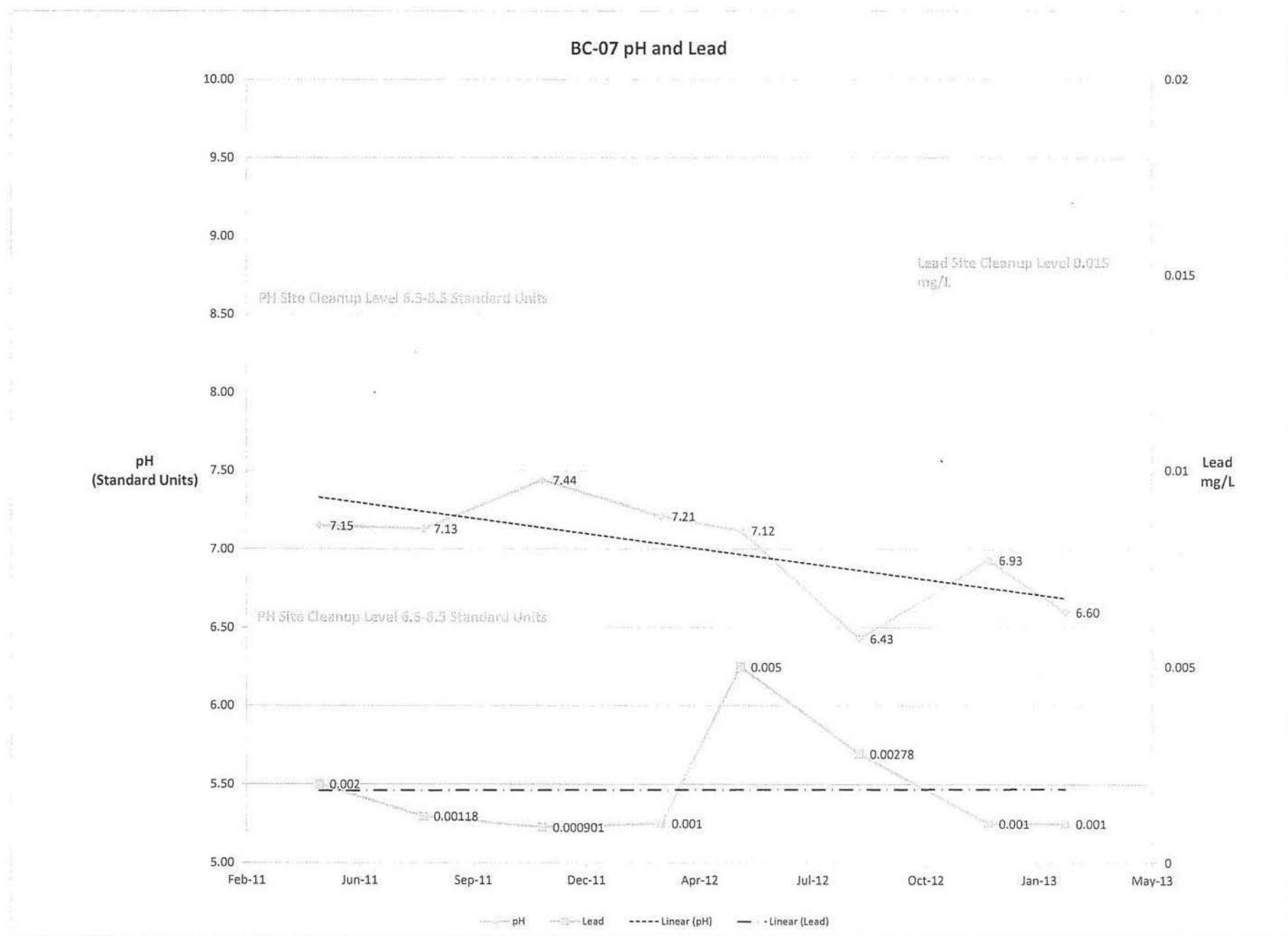


BC-03 Nickel and Thallium

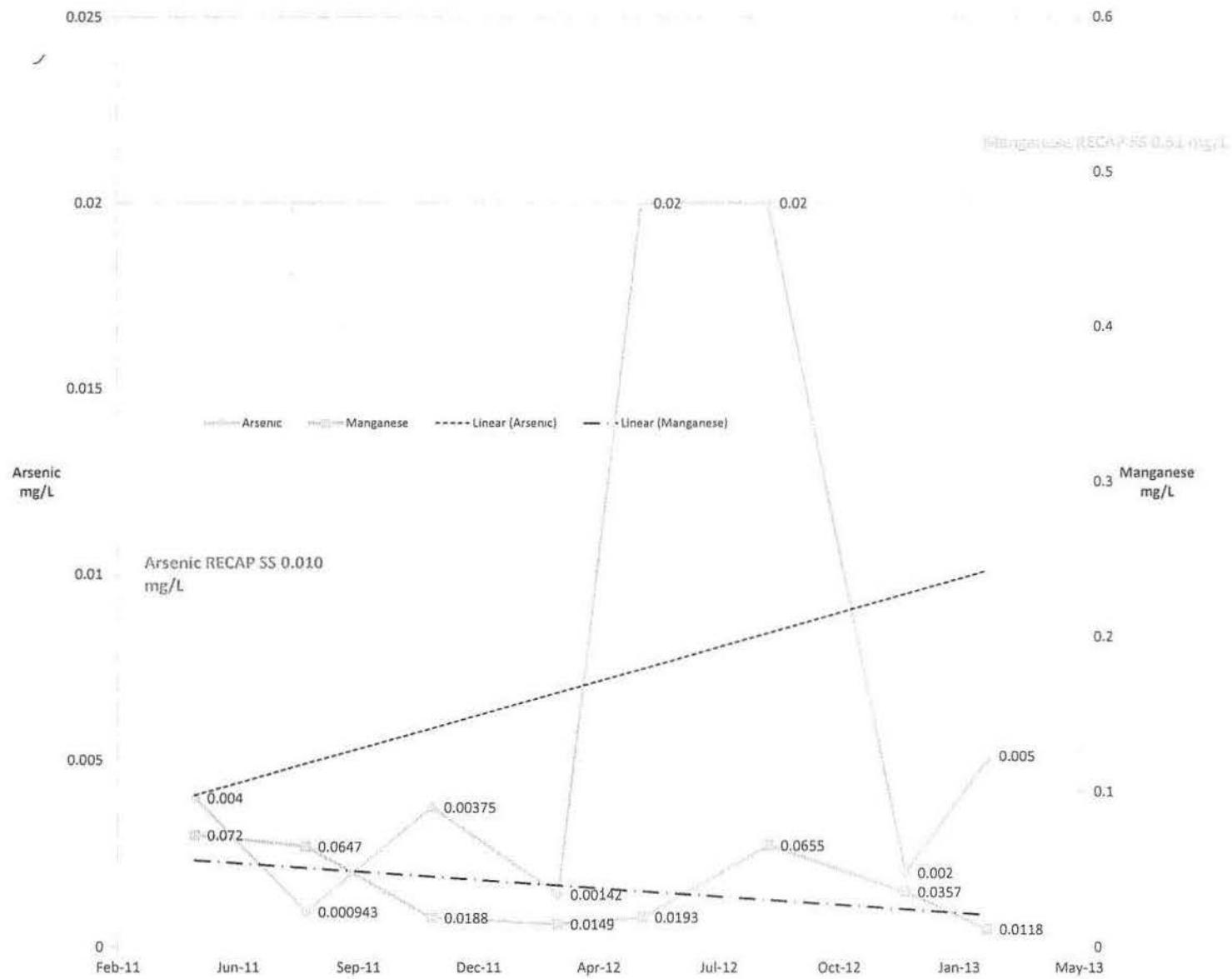


BC-03 Cadmium and Zinc

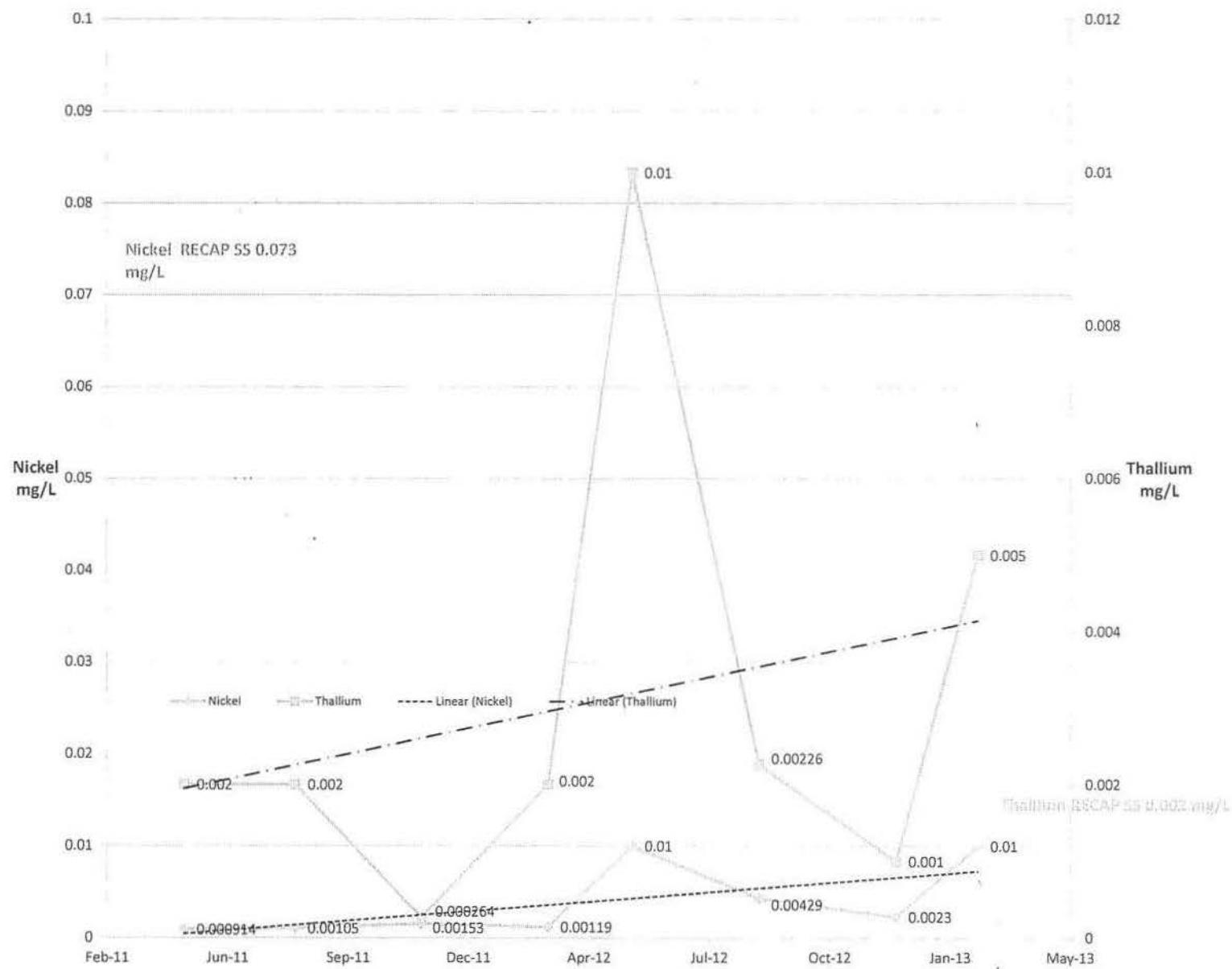




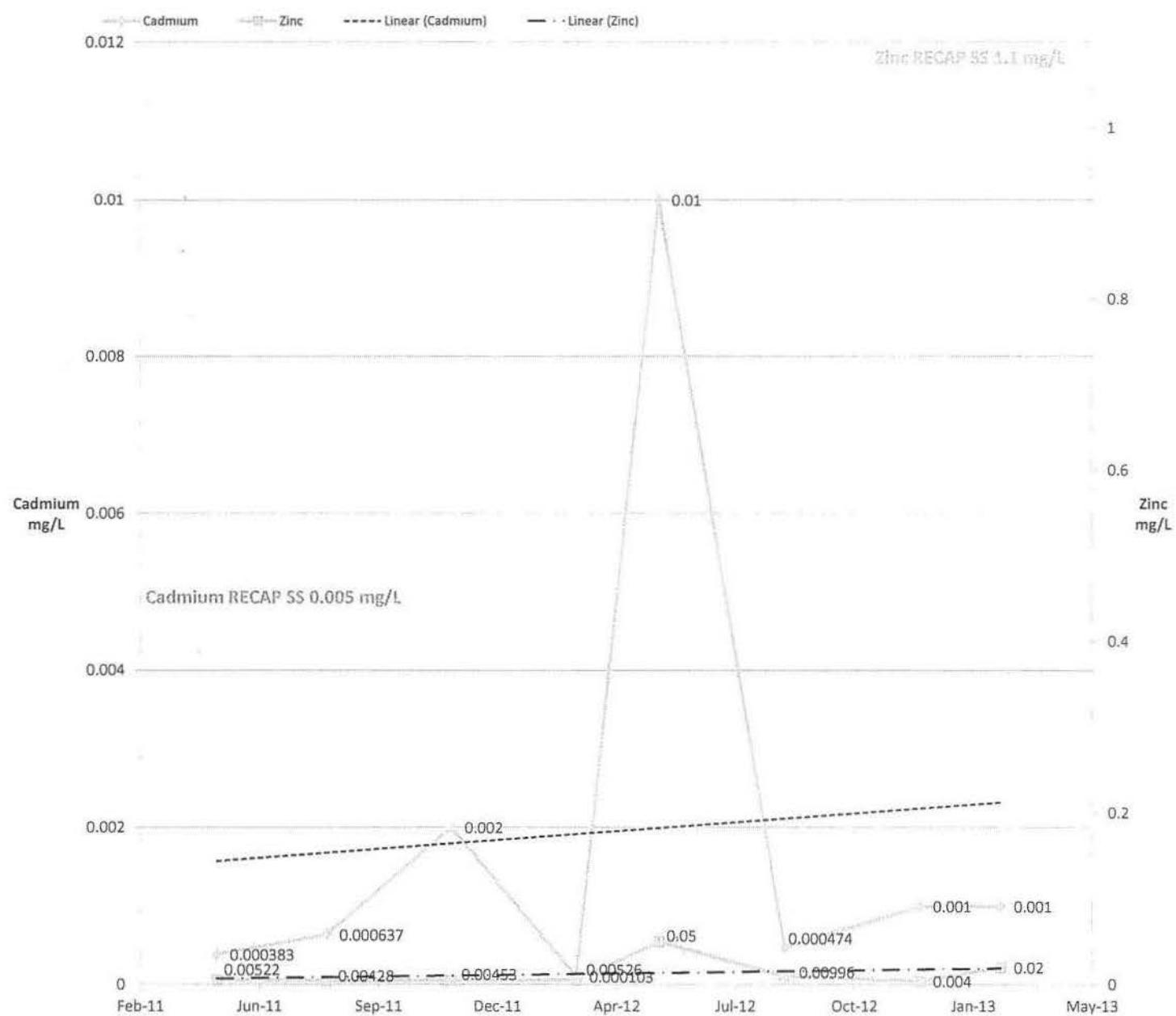
BC-07 Arsenic and Manganese



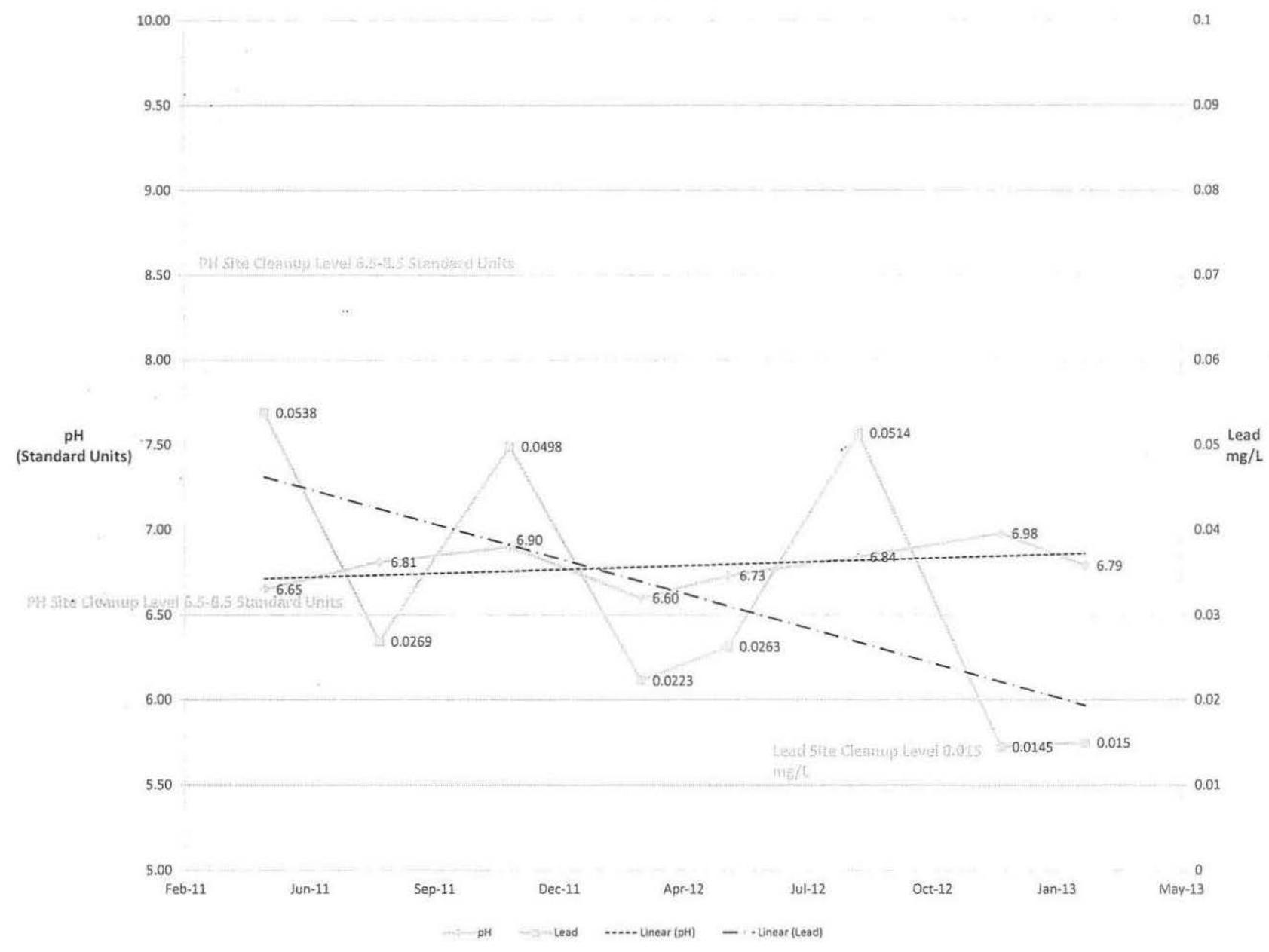
BC-07 Nickel and Thallium



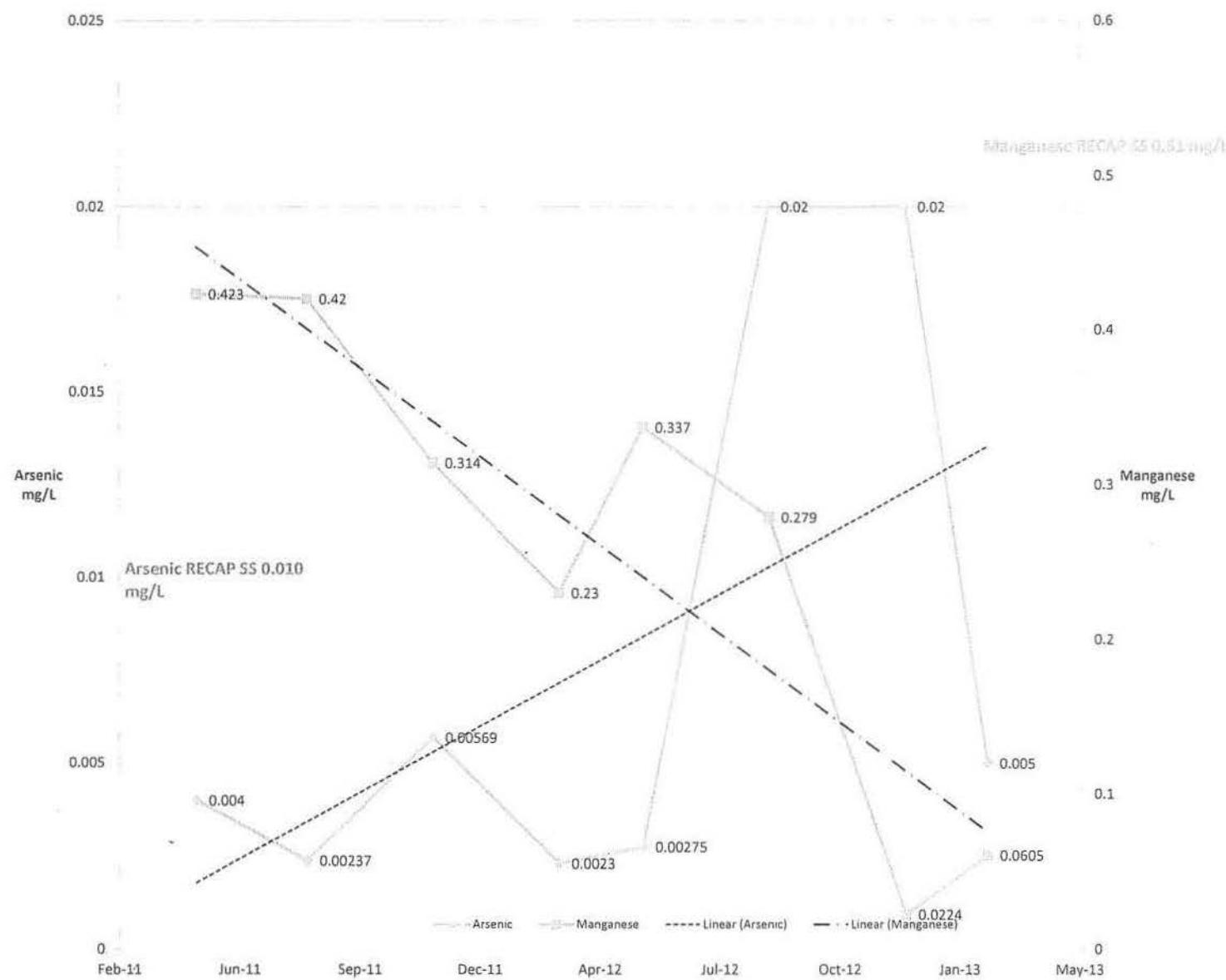
BC-07 Cadmium and Zinc



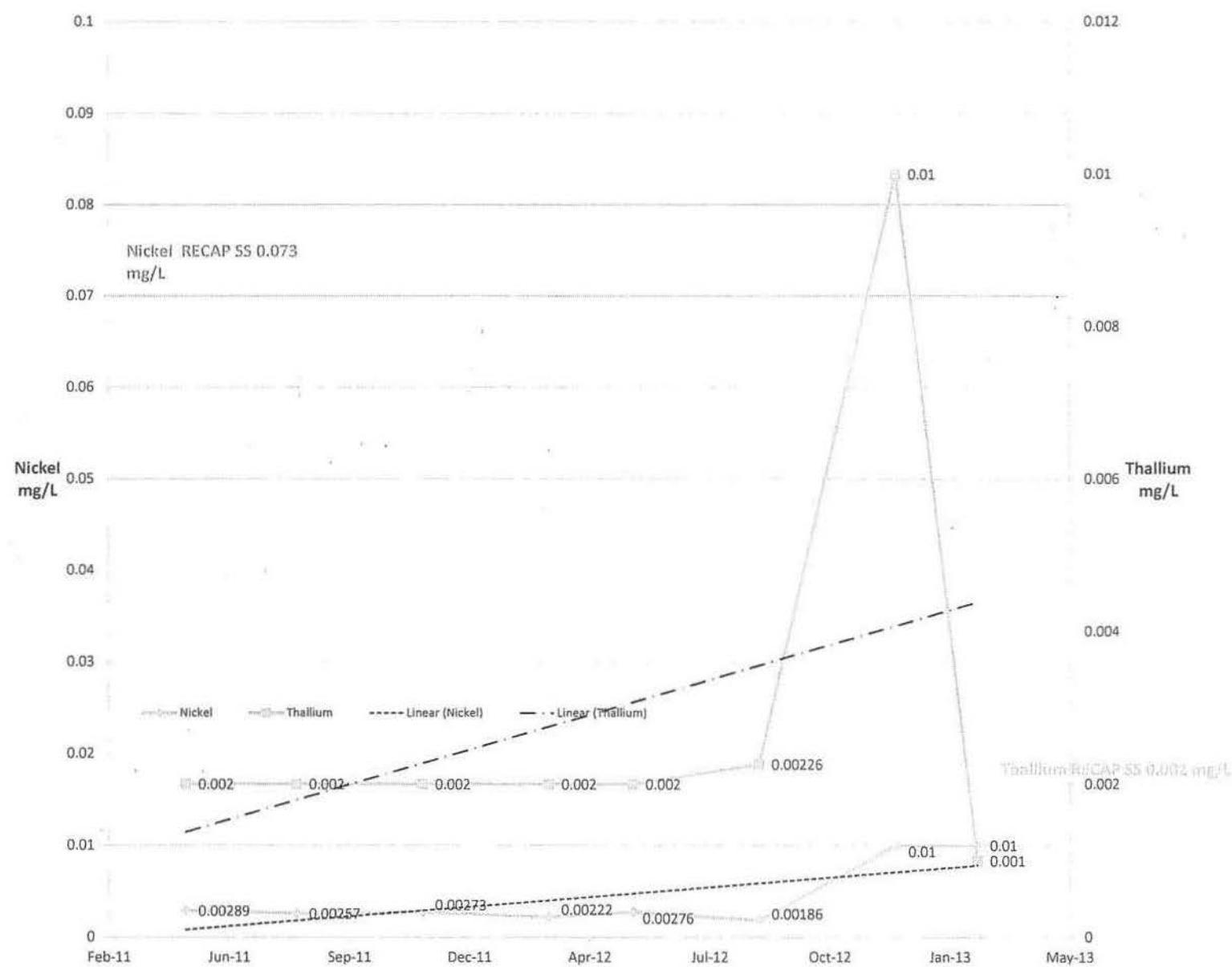
BC-17 pH and Lead



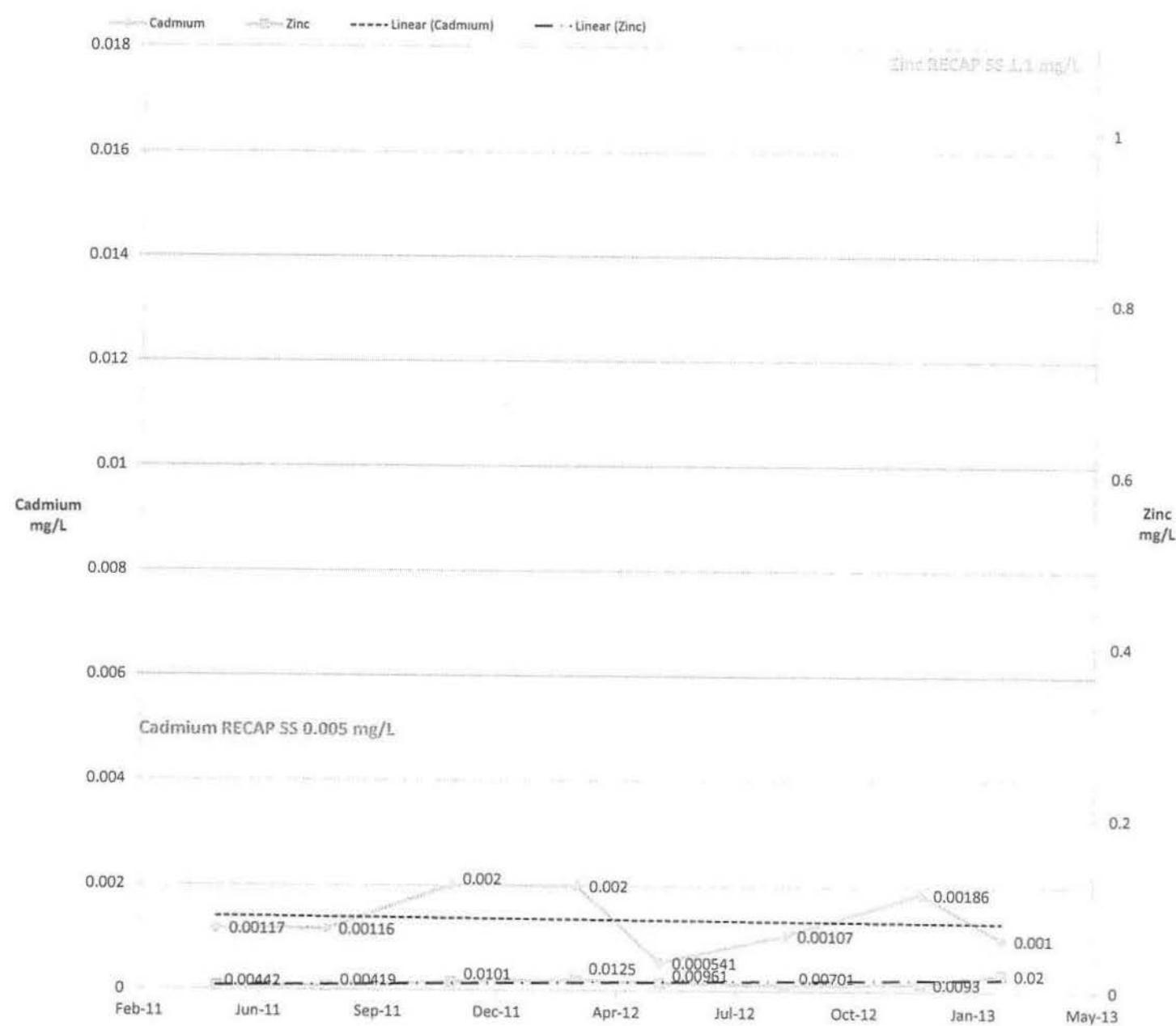
BC-17 Arsenic and Manganese



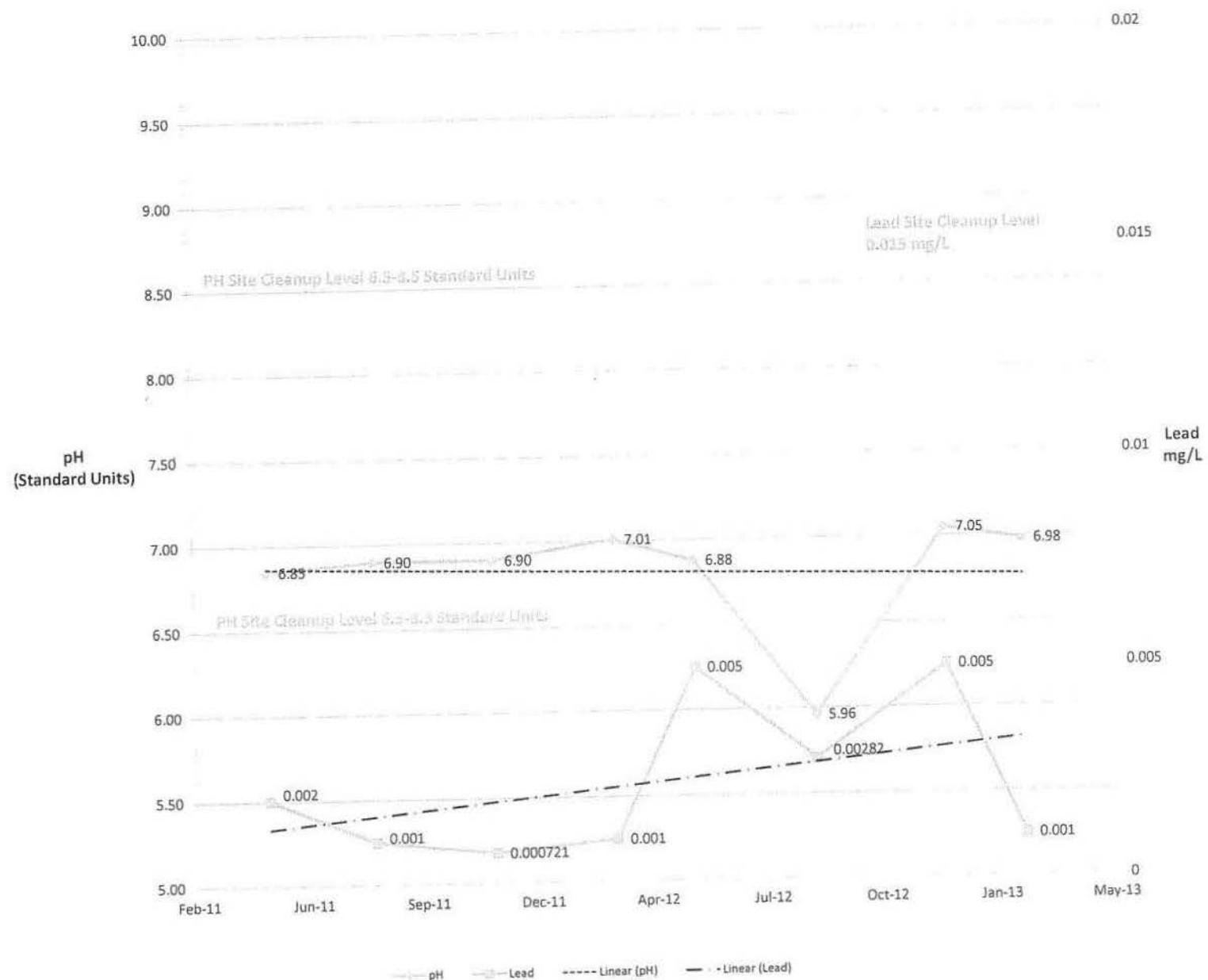
BC-17 Nickel and Thallium



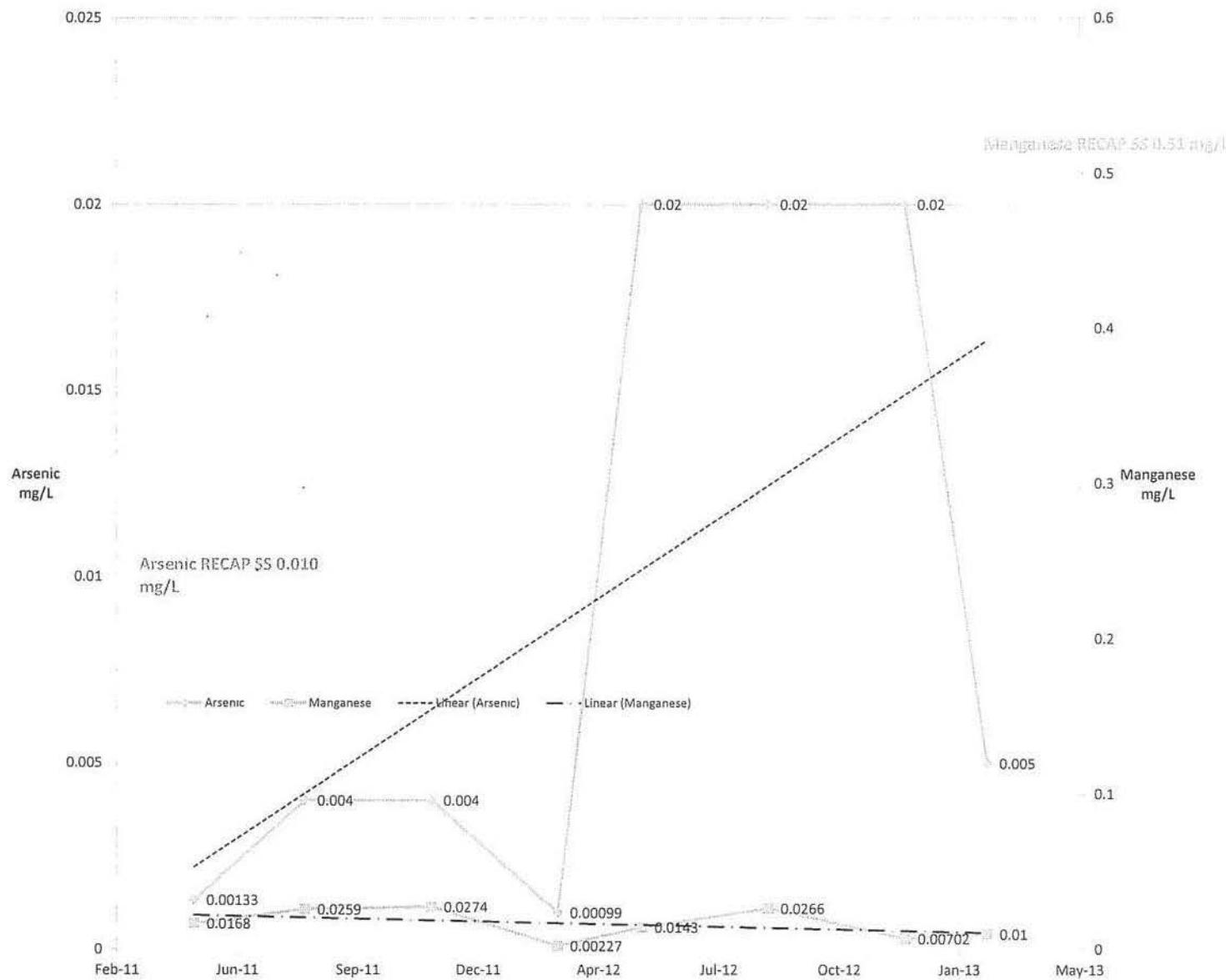
BC-17 Cadmium and Zinc



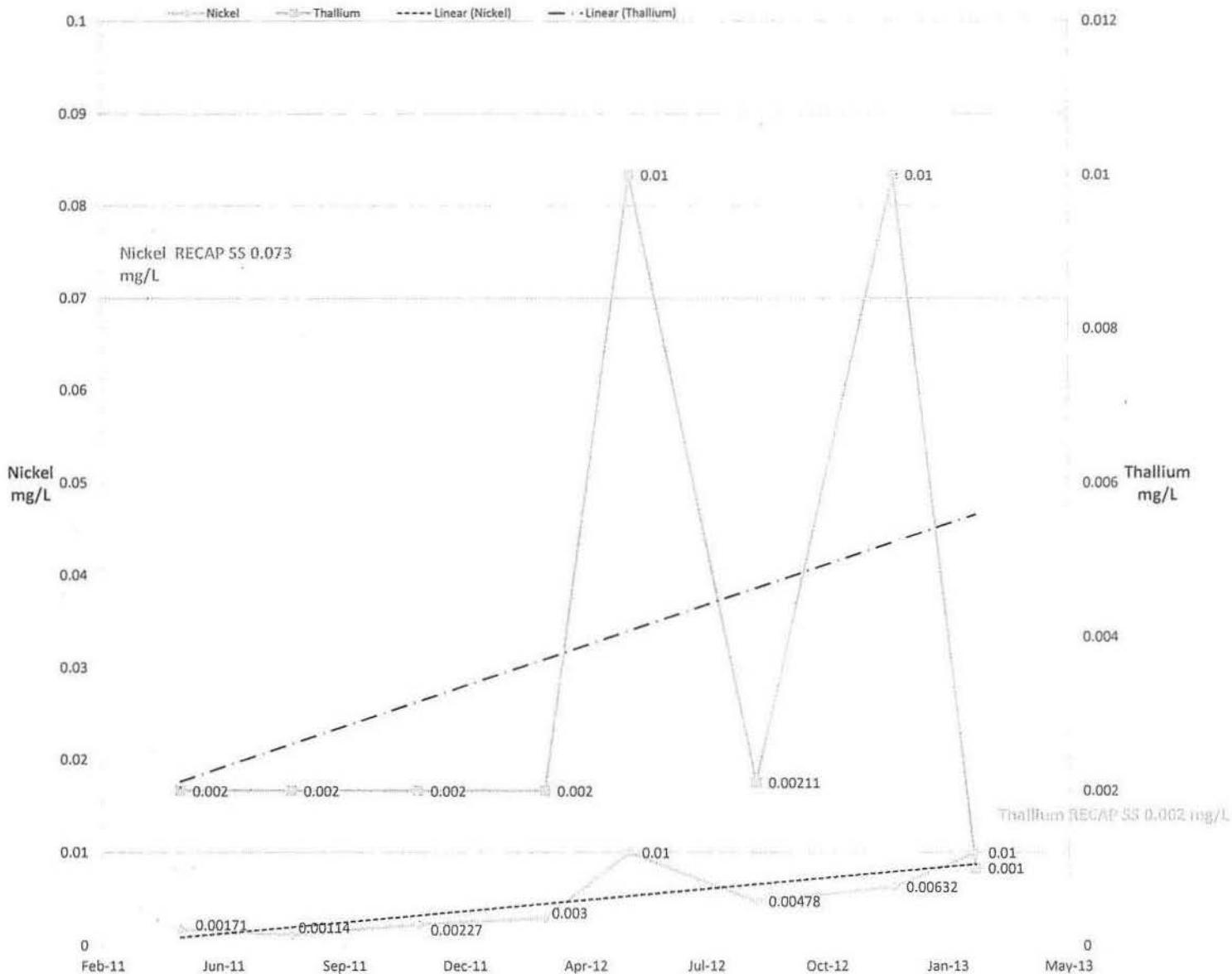
BC-19 pH and Lead



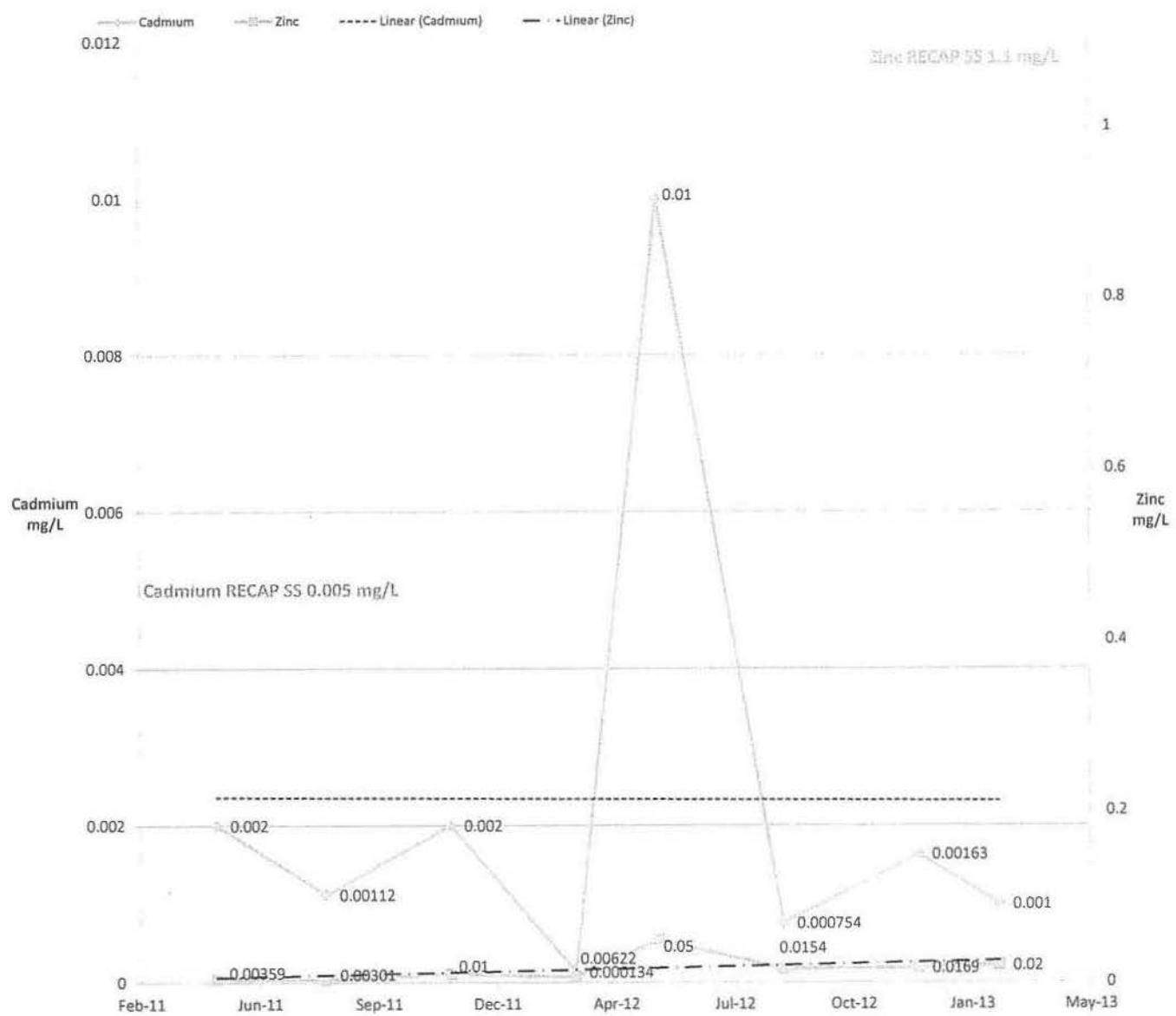
BC-19 Arsenic and Manganese



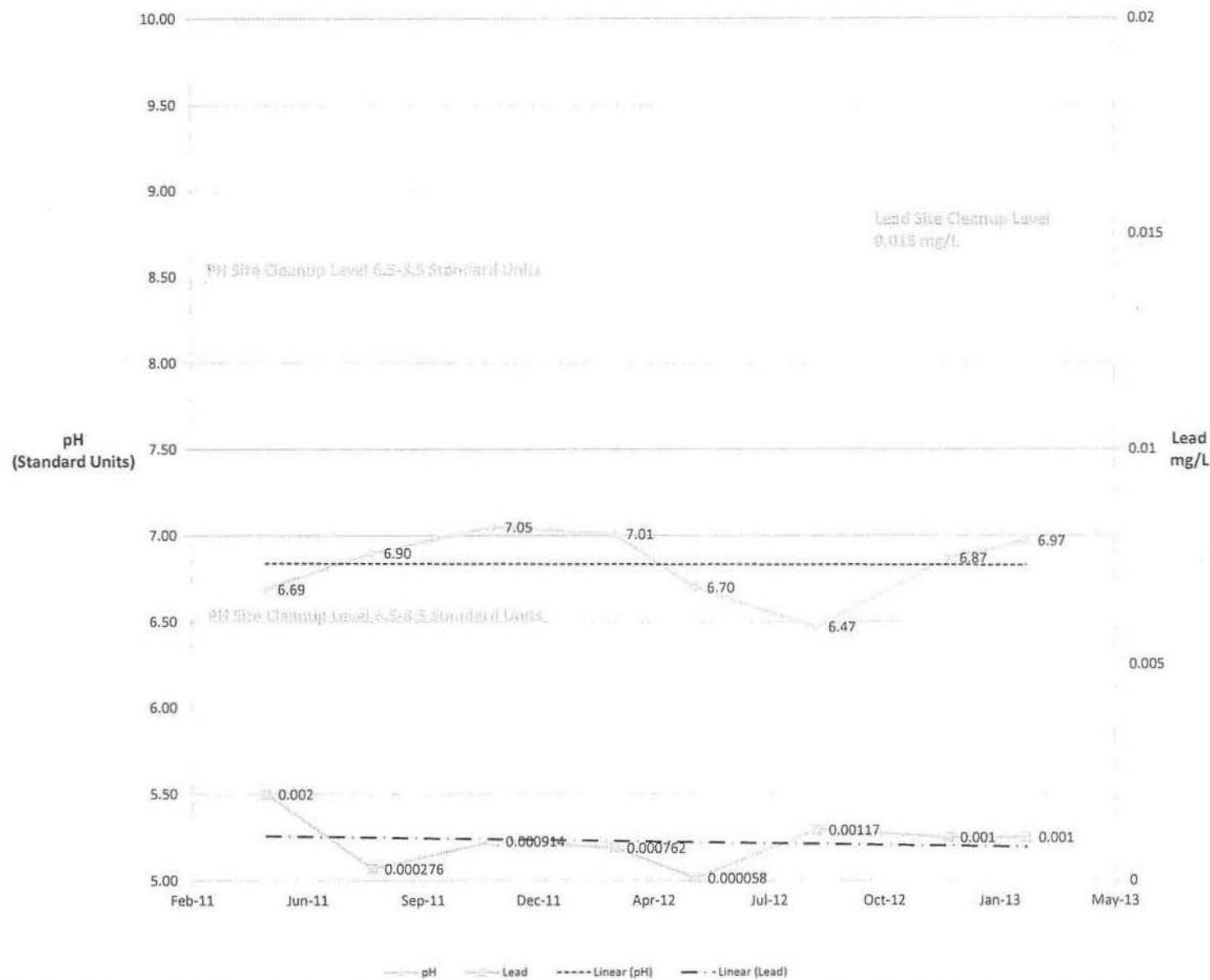
BC-19 Nickel and Thallium



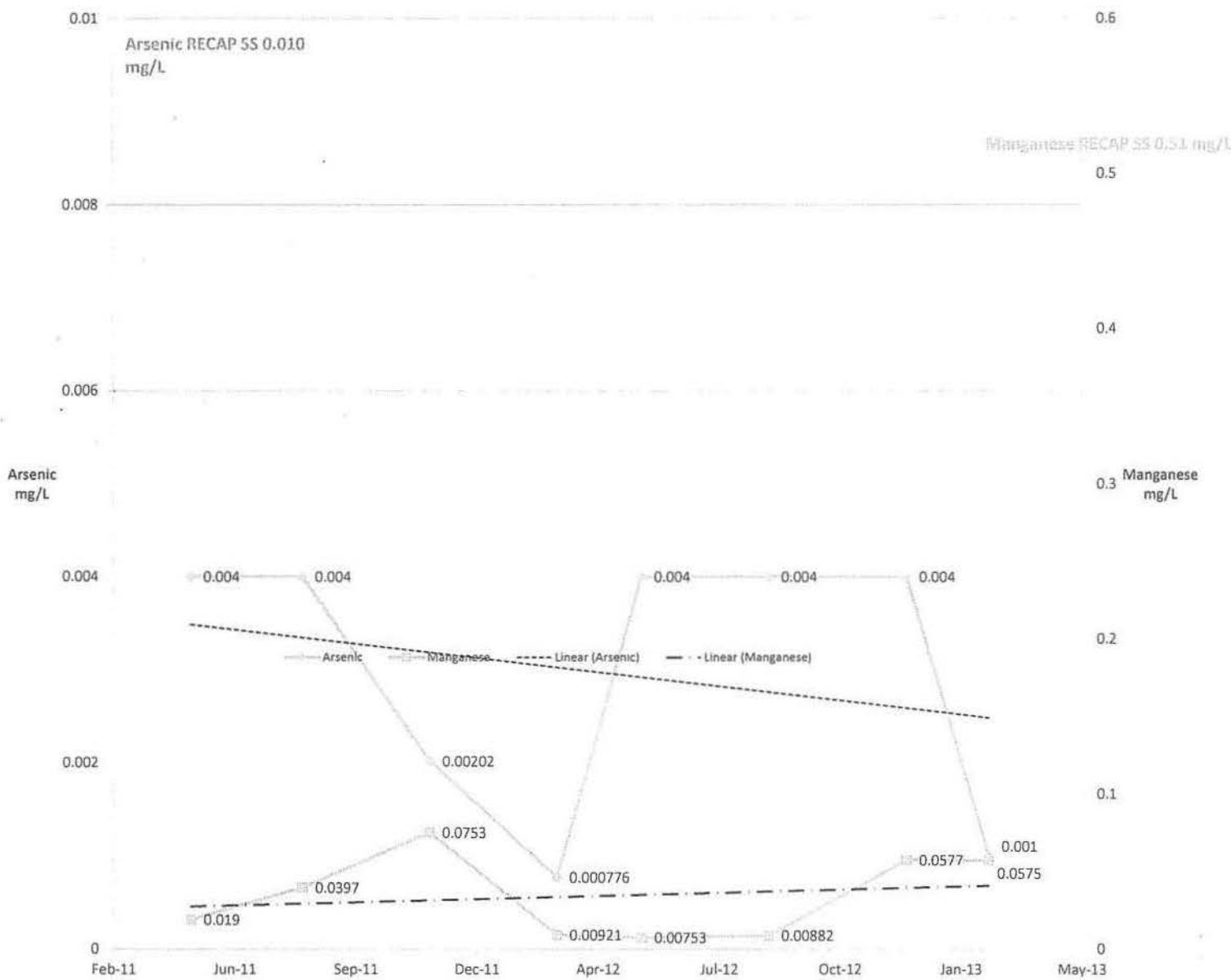
BC-19 Cadmium and Zinc



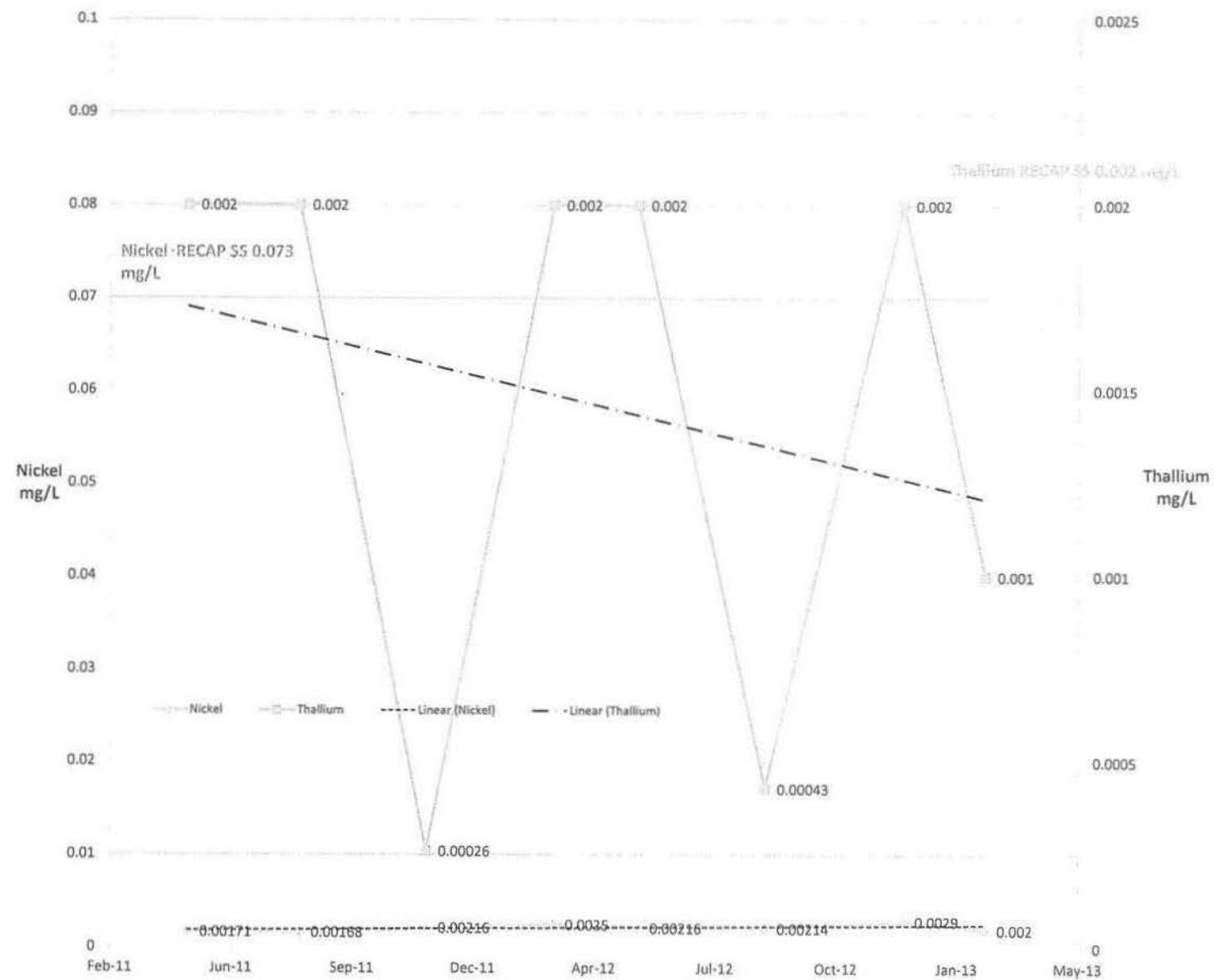
BC-21R pH and Lead



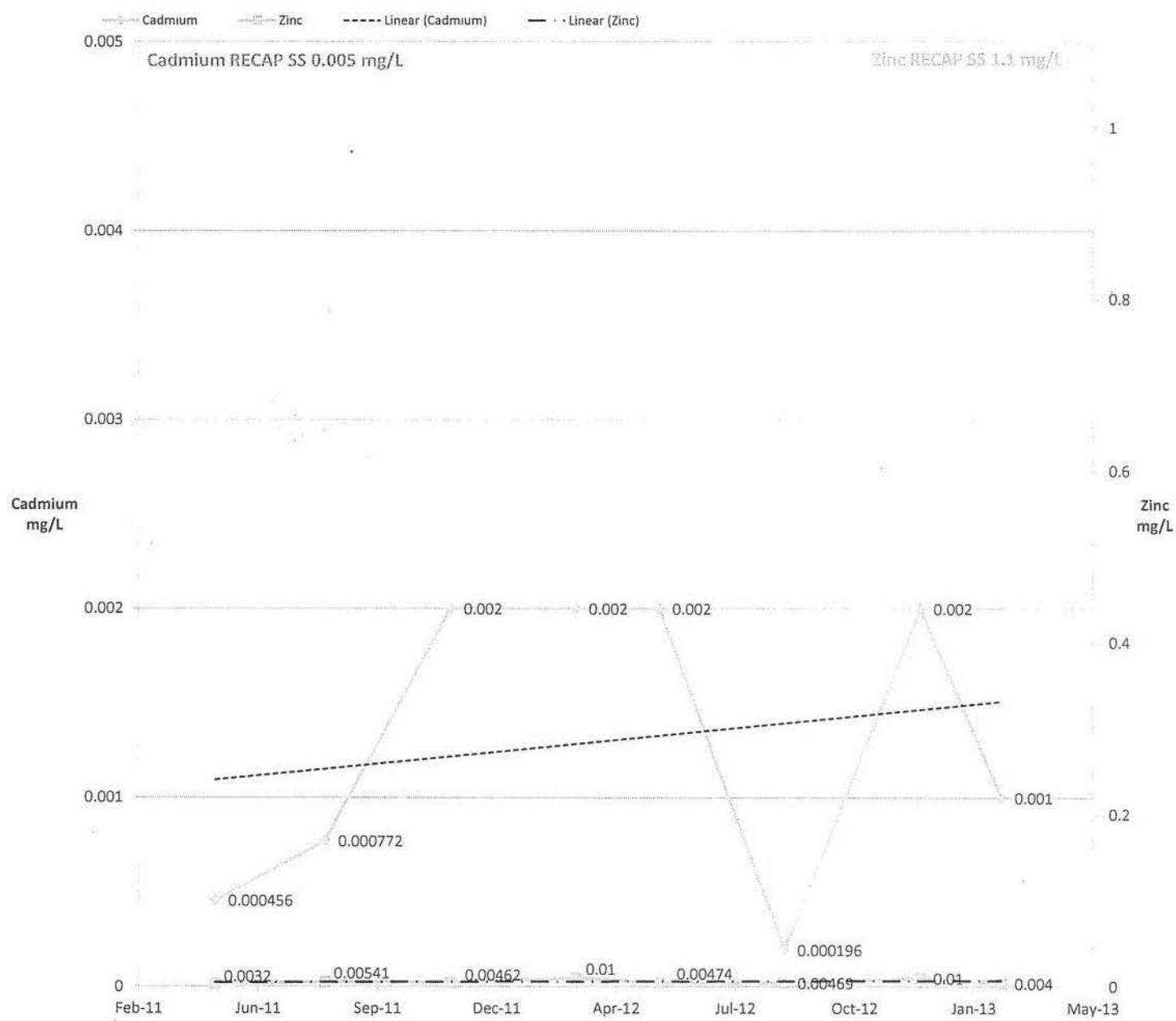
BC-21R Arsenic and Manganese



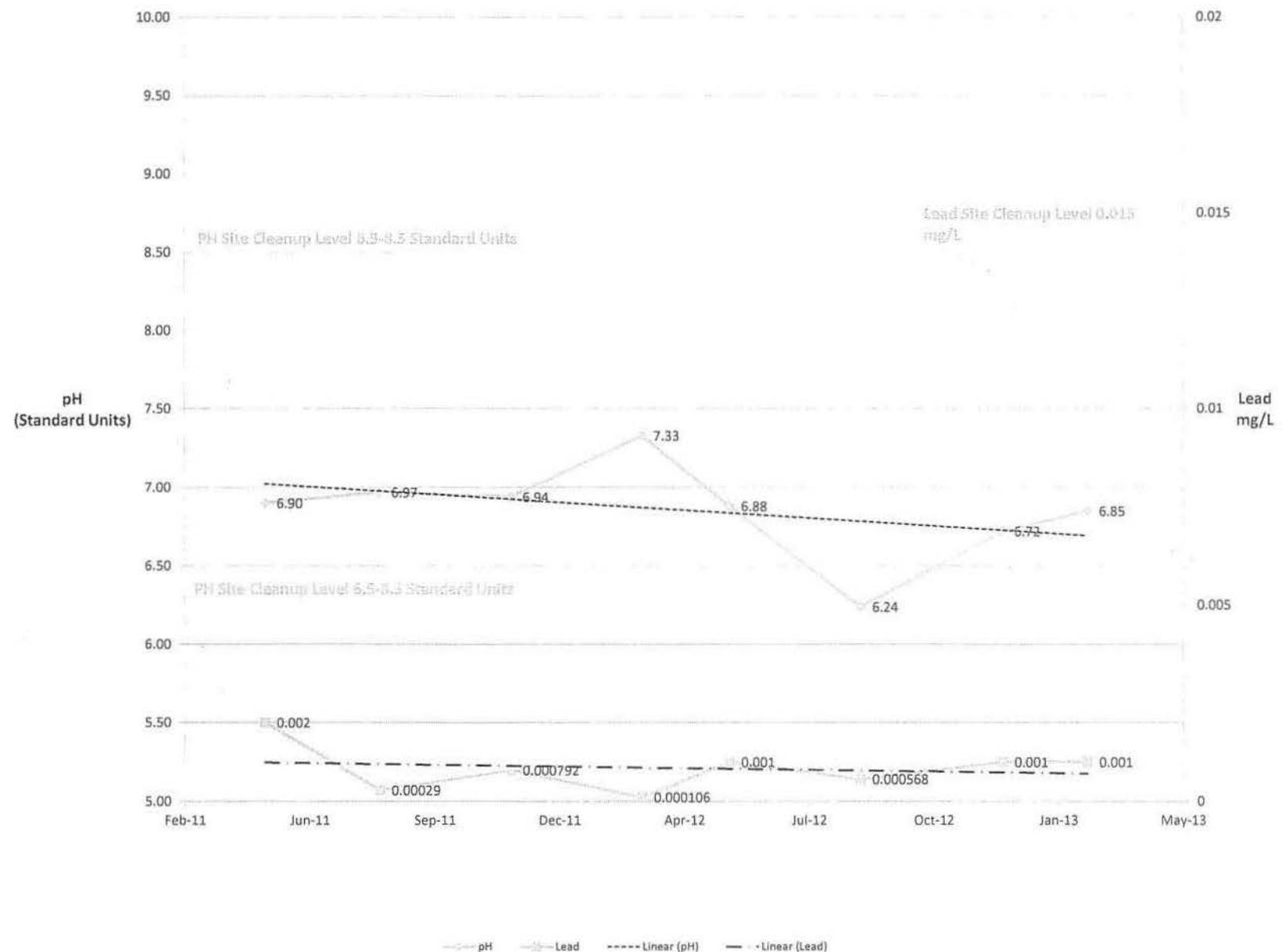
BC-21R Nickel and Thallium



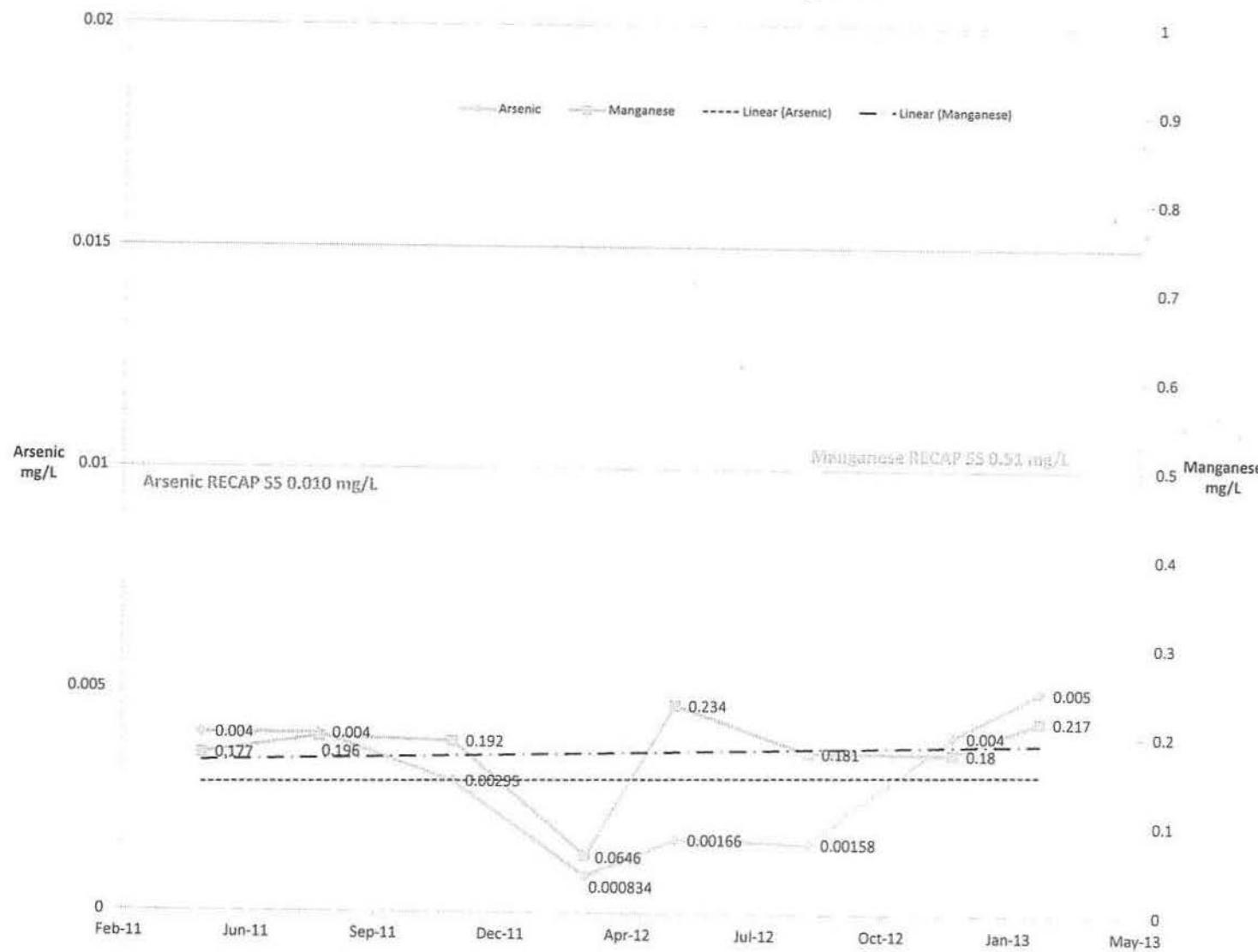
BC-21R Cadmium and Zinc



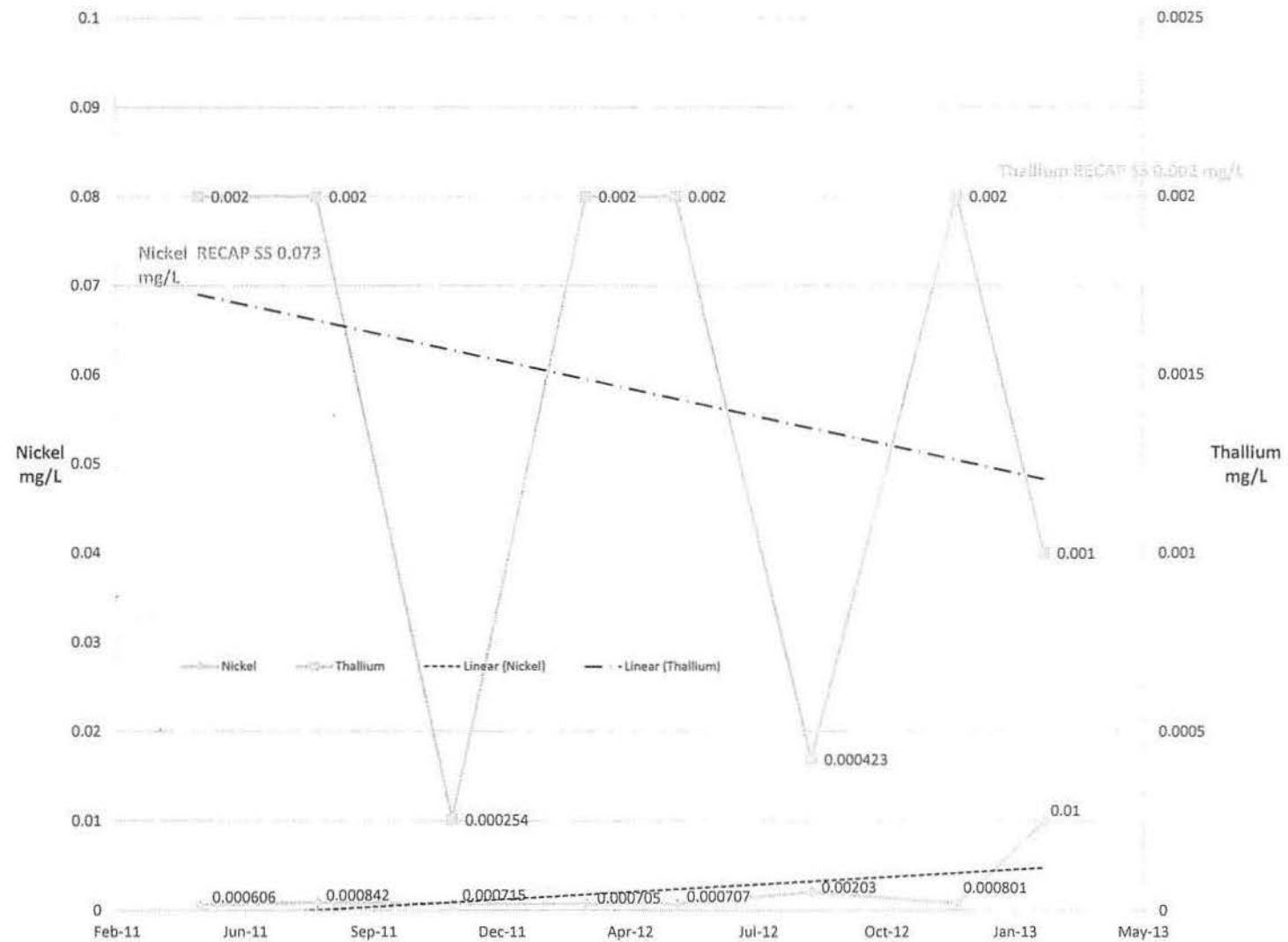
BC-25 pH and Lead



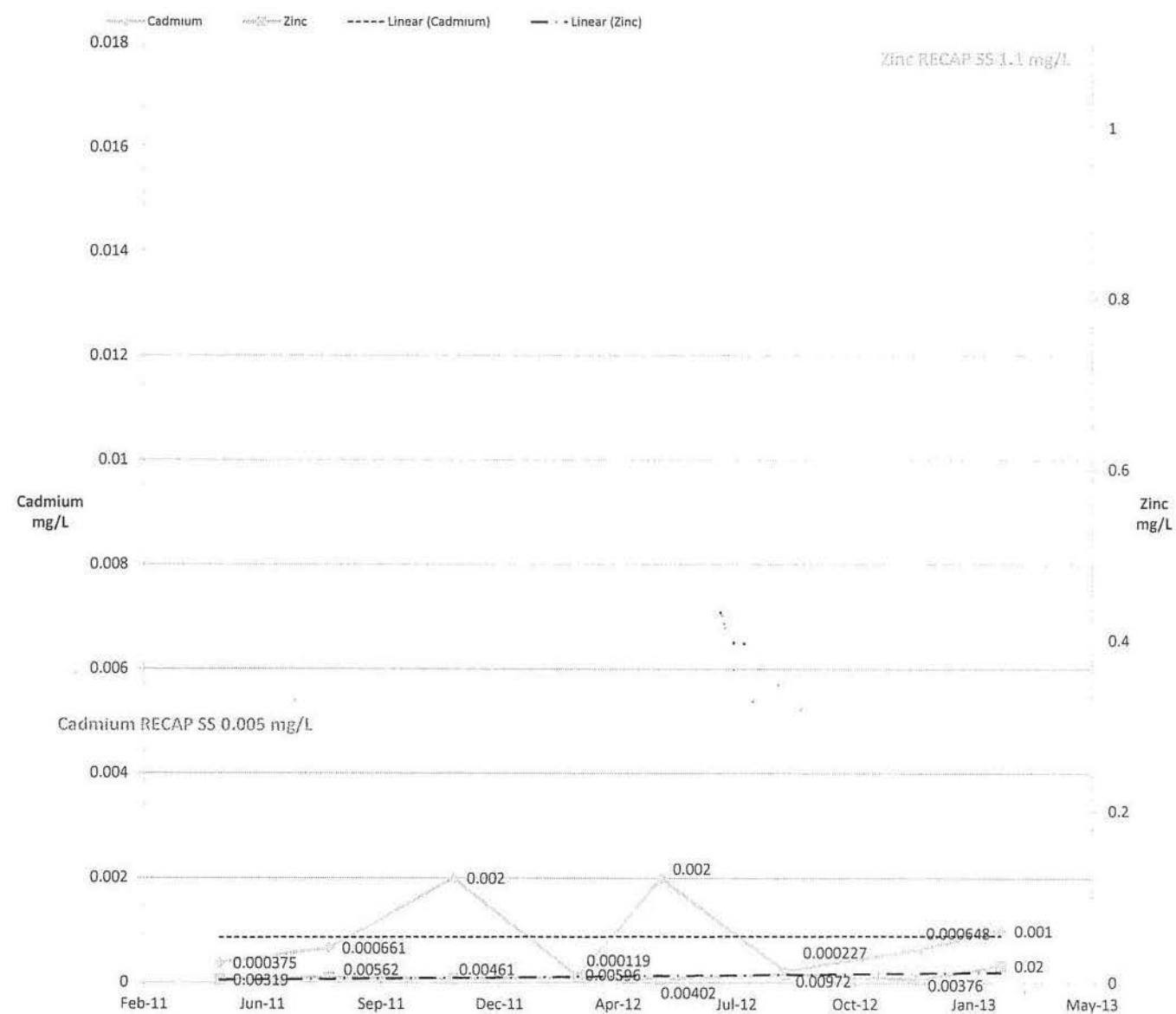
BC-25 Arsenic and Manganese



BC-25 Nickel and Thallium



BC-25 Cadmium and Zinc



THIRD WATER BEARING ZONE

(PAST EIGHT QUARTERS)

pH Site Cleanup Level 6.5-8.5 Standard Units

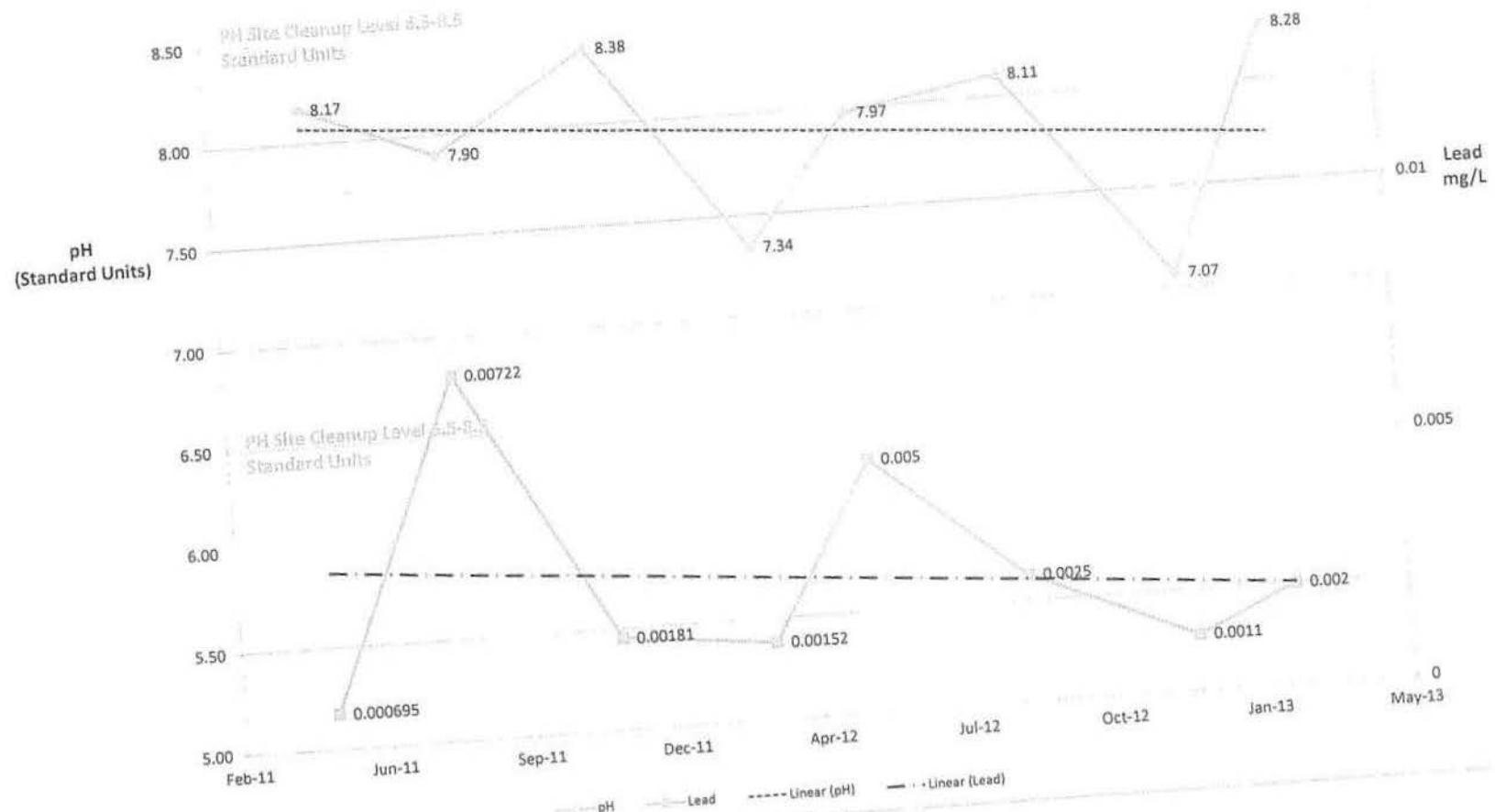
BA-03A pH and Lead

pH Site Cleanup Level 6.5-8.5 Standard Units

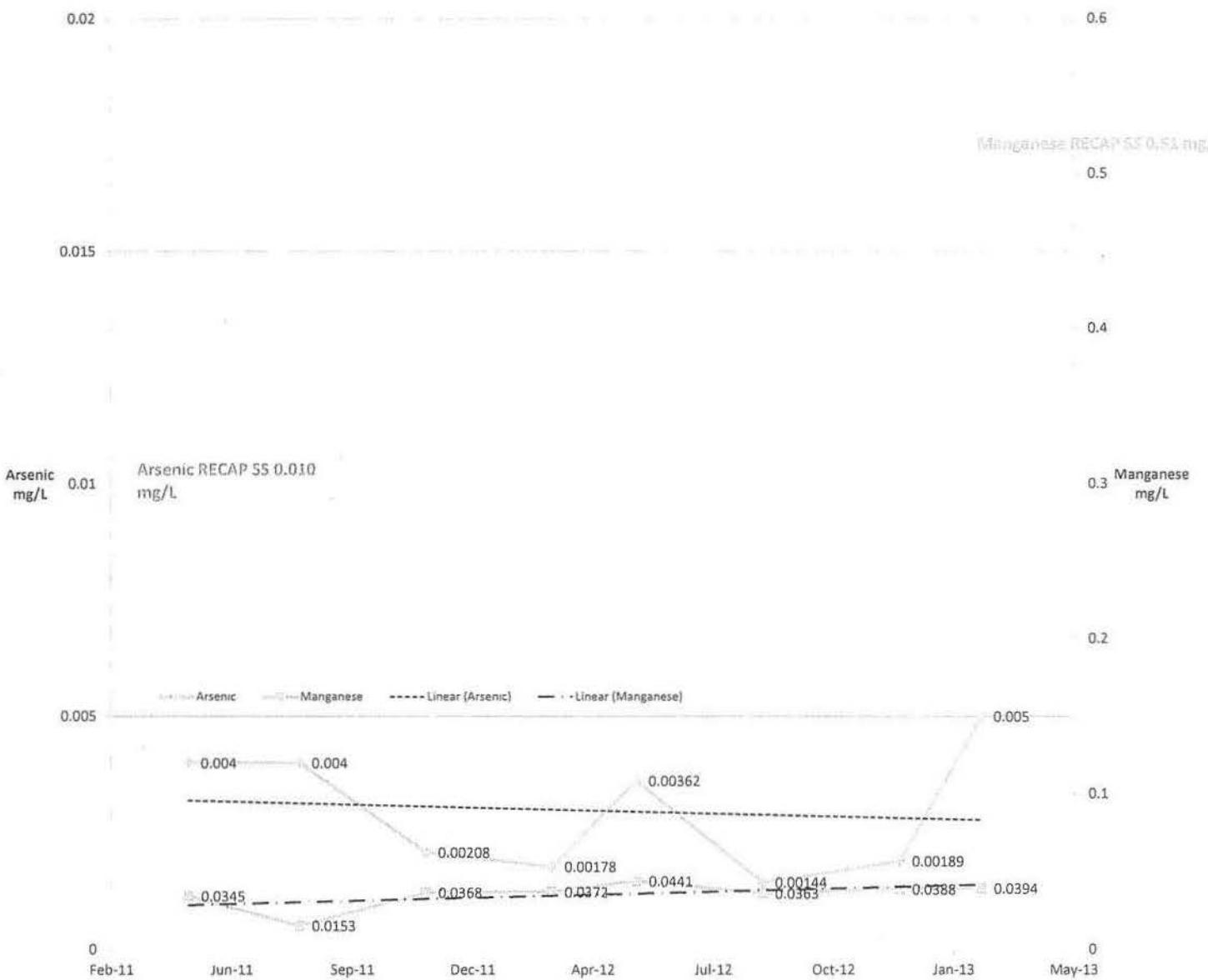
0.02

0.015

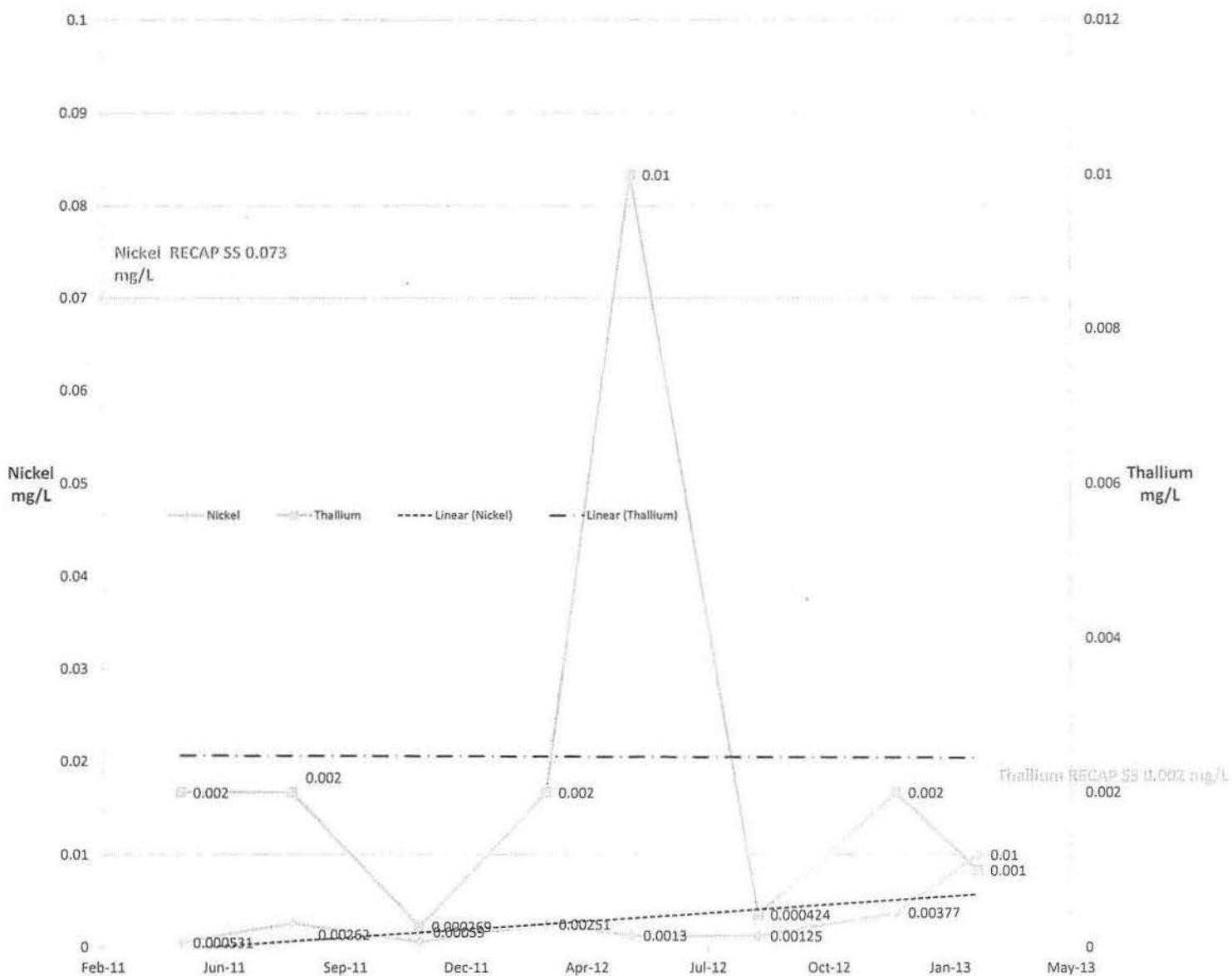
Lead mg/L



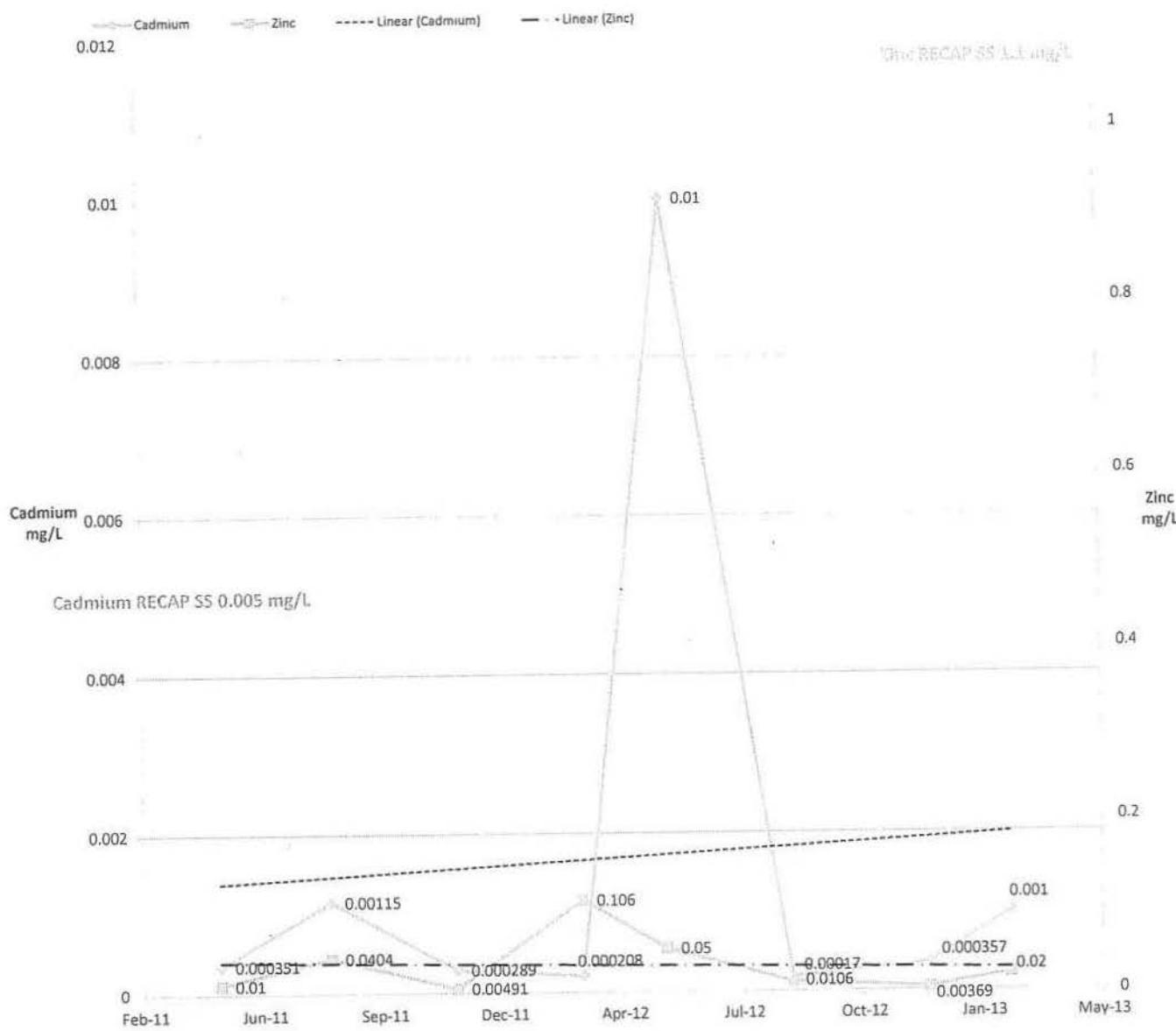
BA-03A Arsenic and Manganese



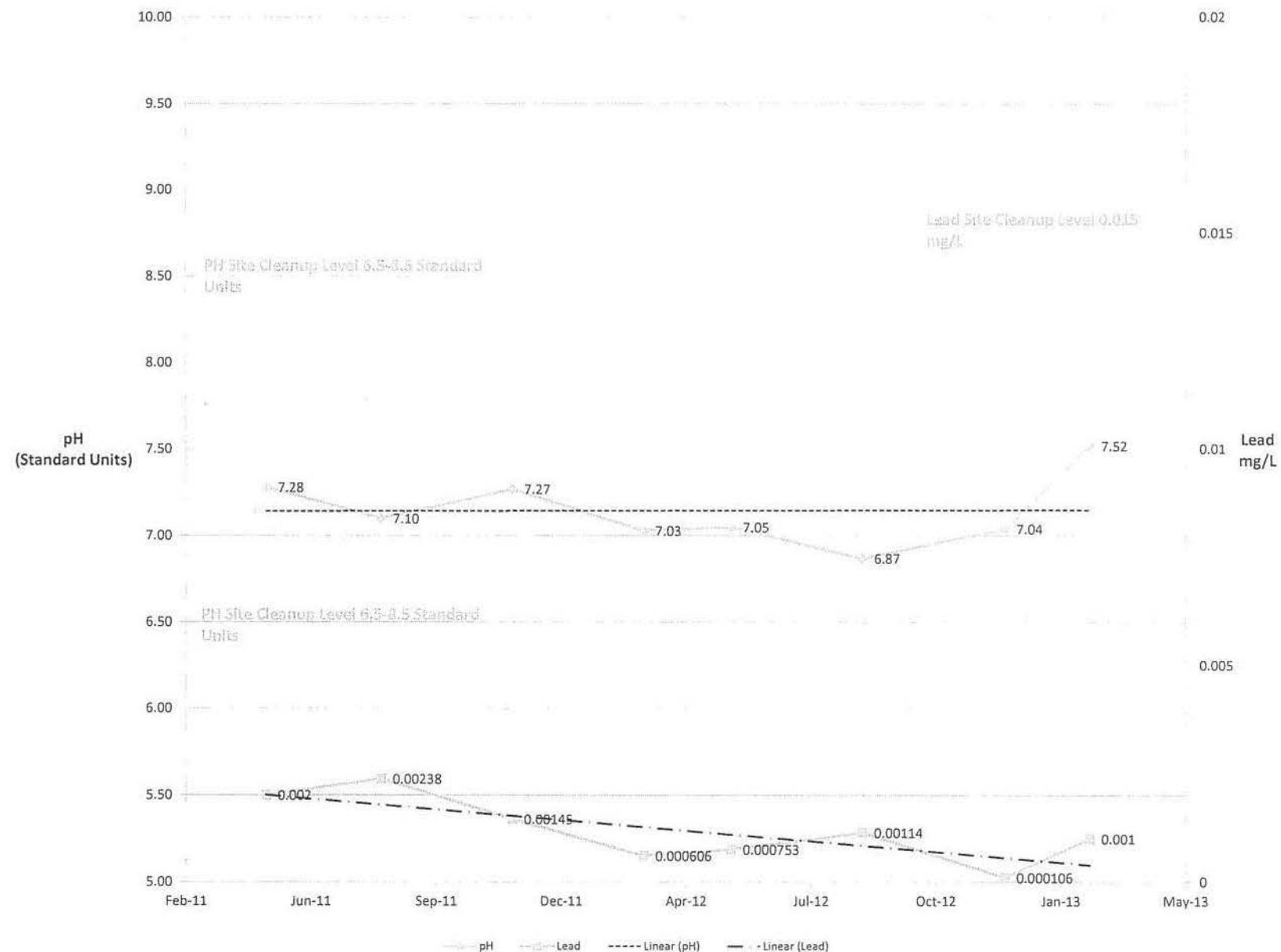
BA-03A Nickel and Thallium



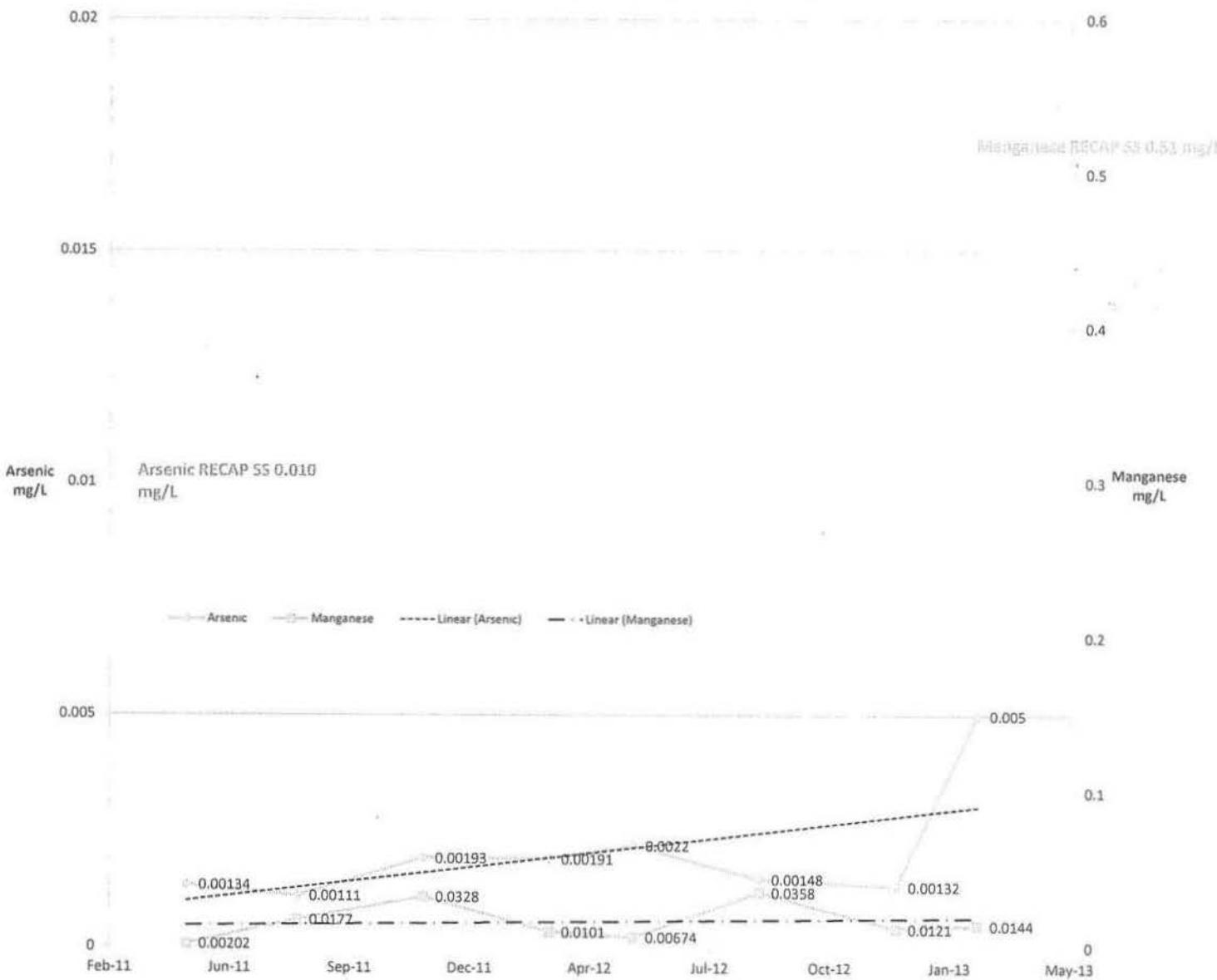
BA-03A Cadmium and Zinc



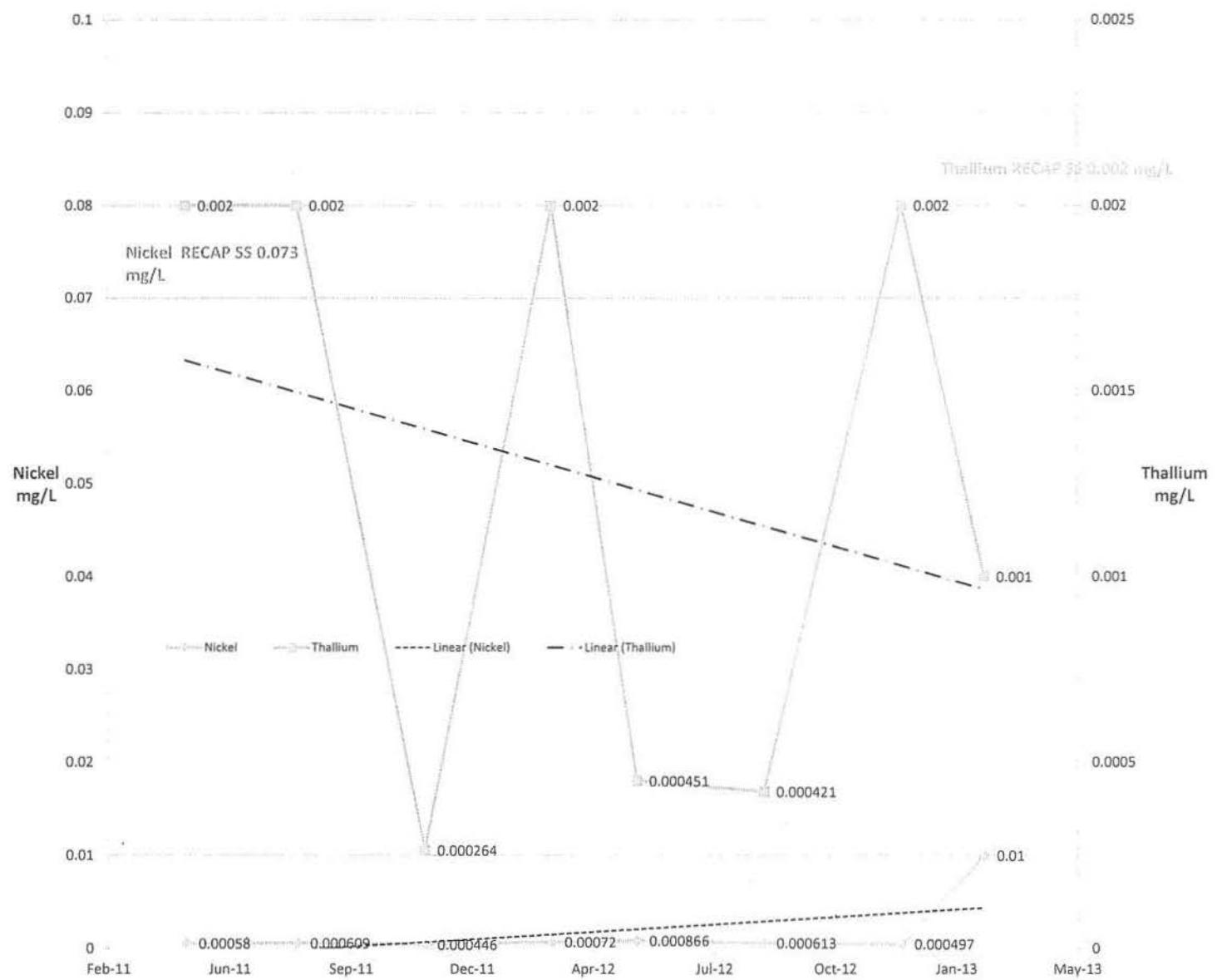
BA-05A pH and Lead



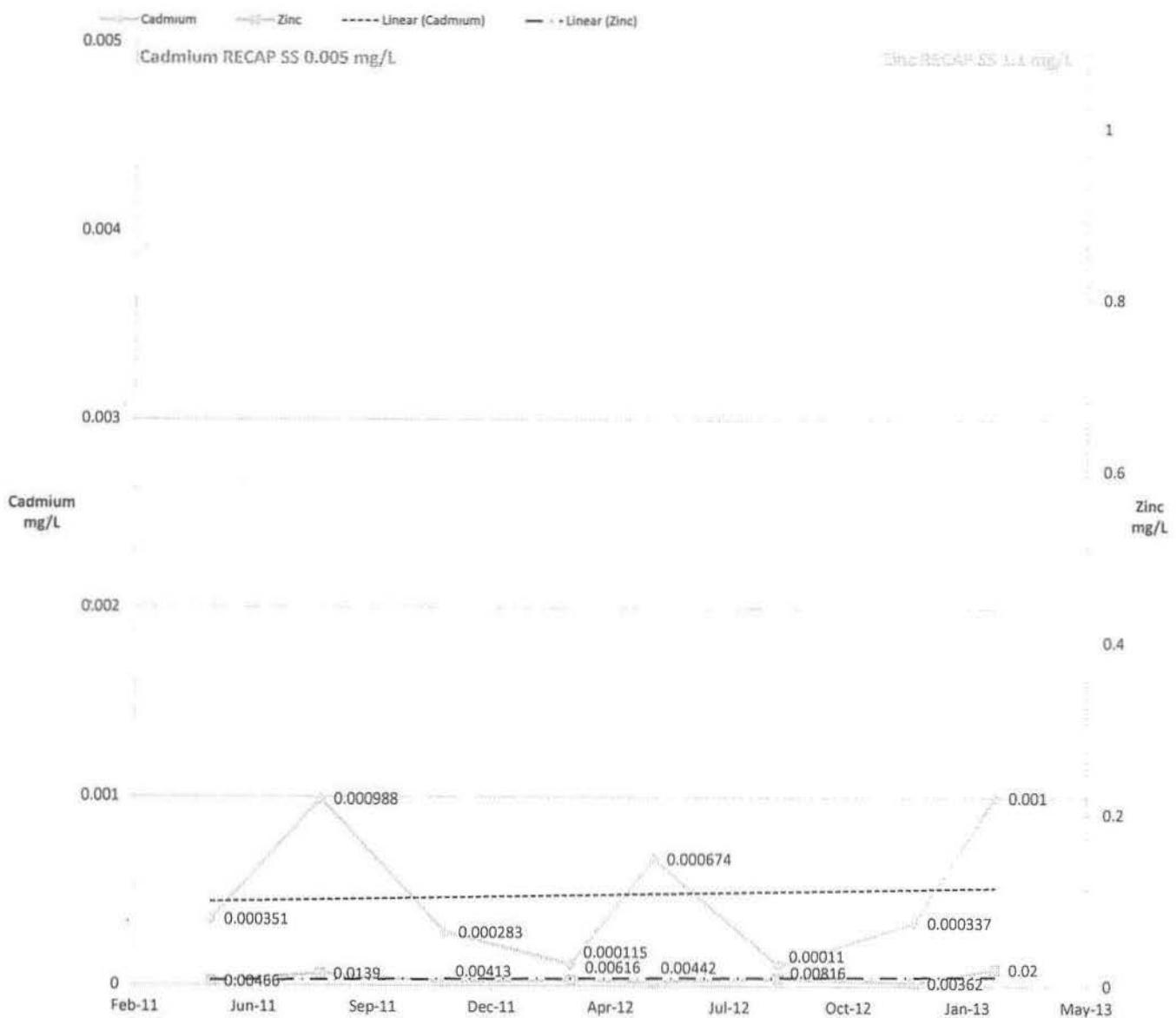
BA-05A Arsenic and Manganese



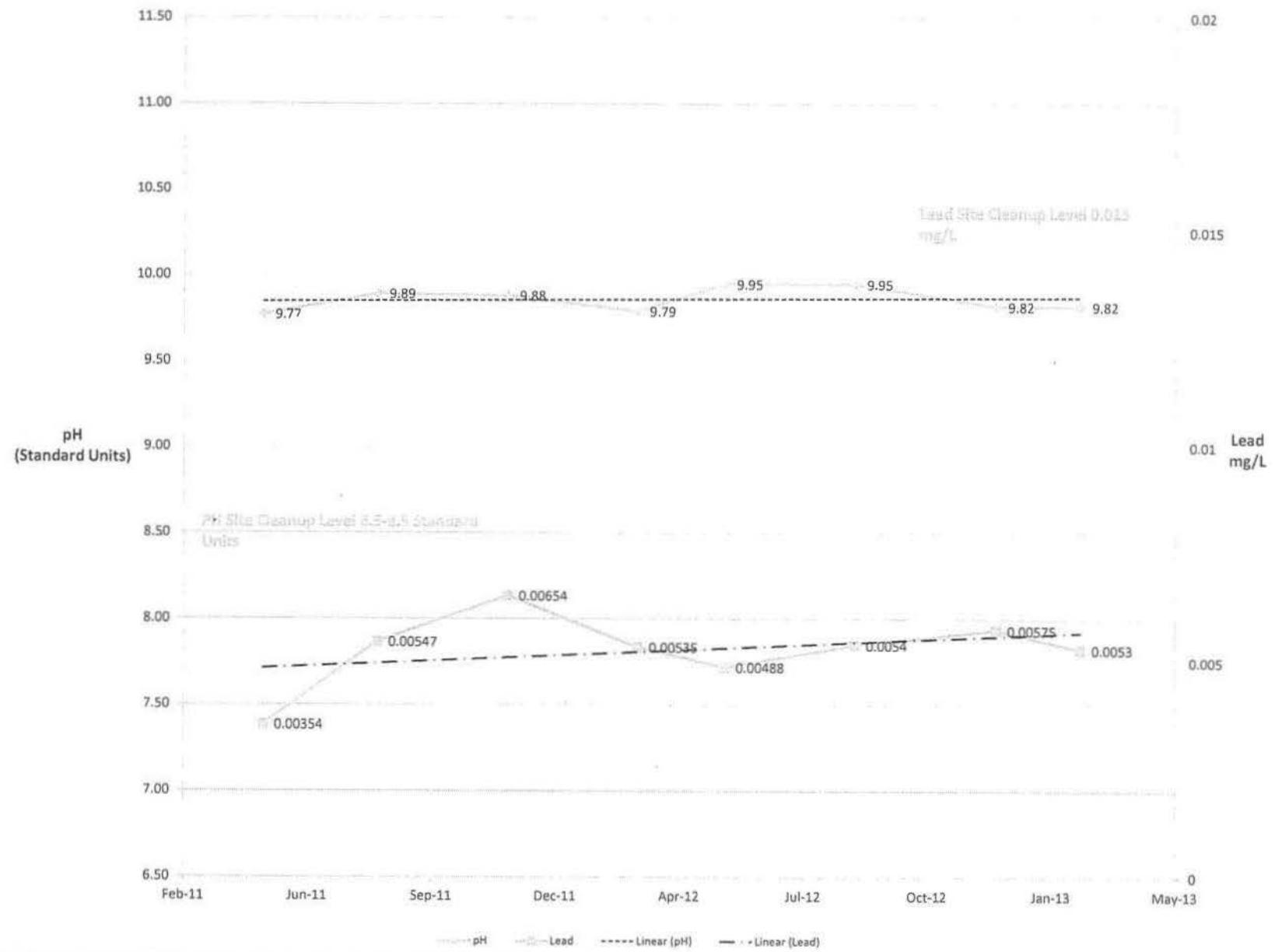
BA-05A Nickel and Thallium



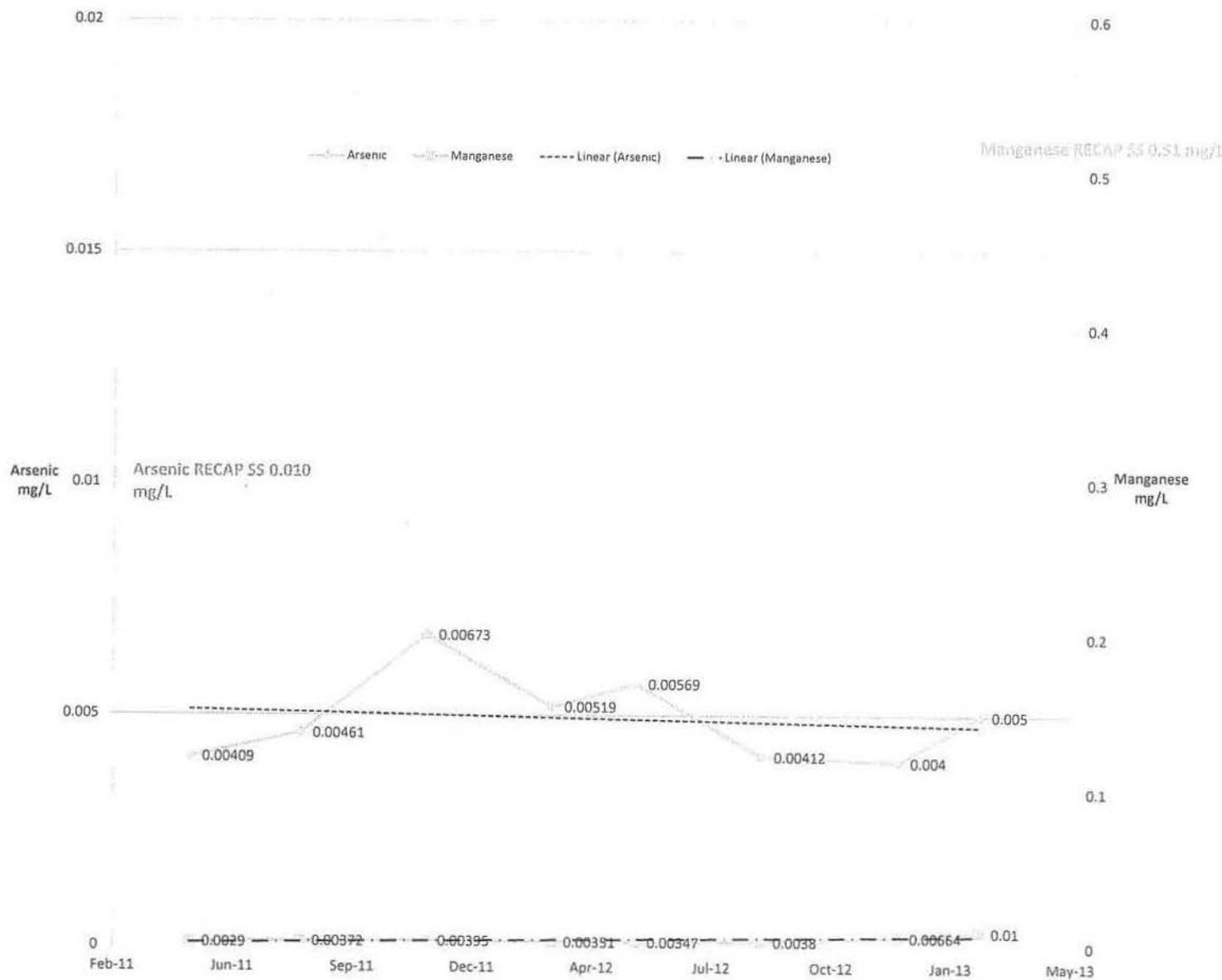
BA-05A Cadmium and Zinc



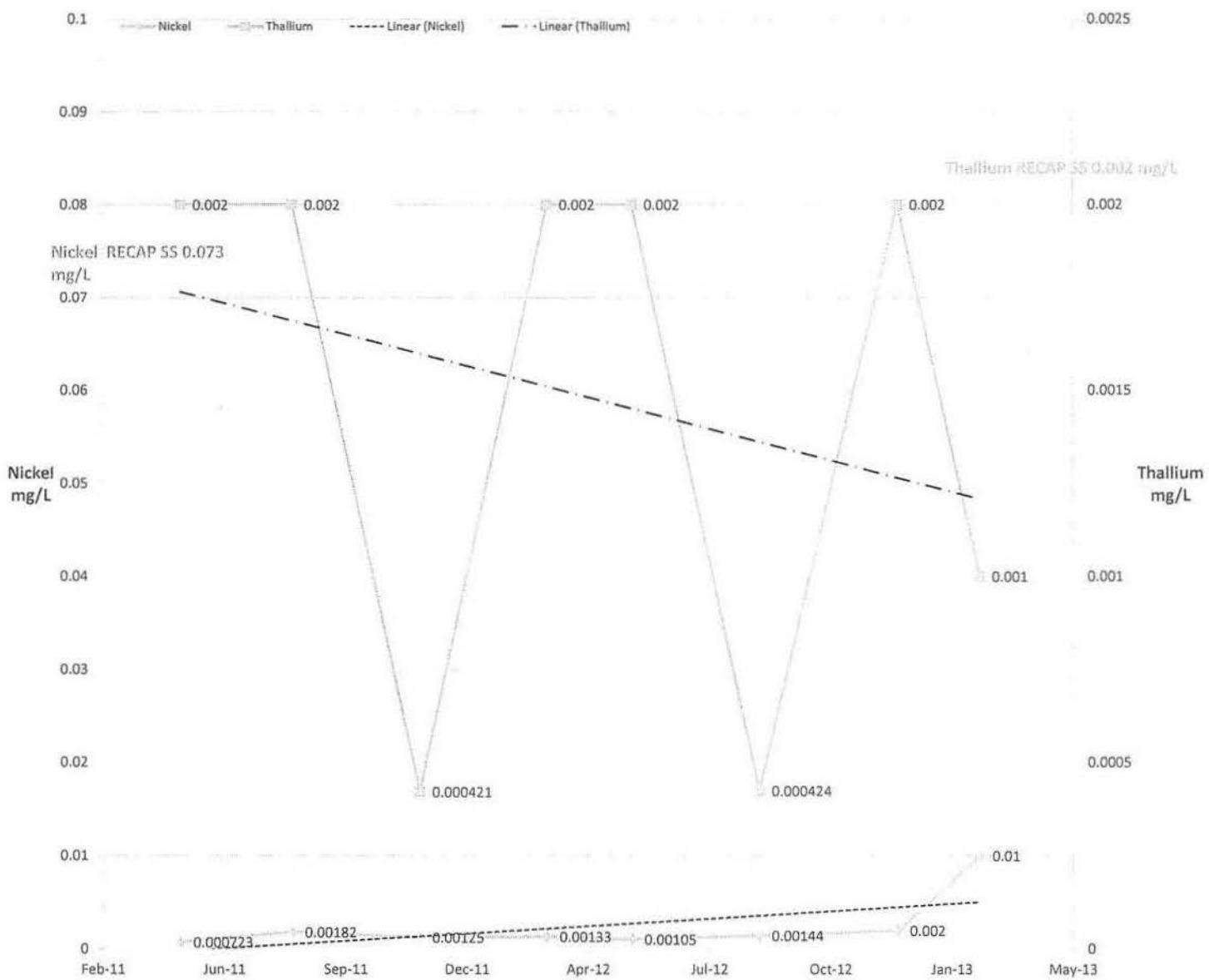
BB-01 pH and Lead



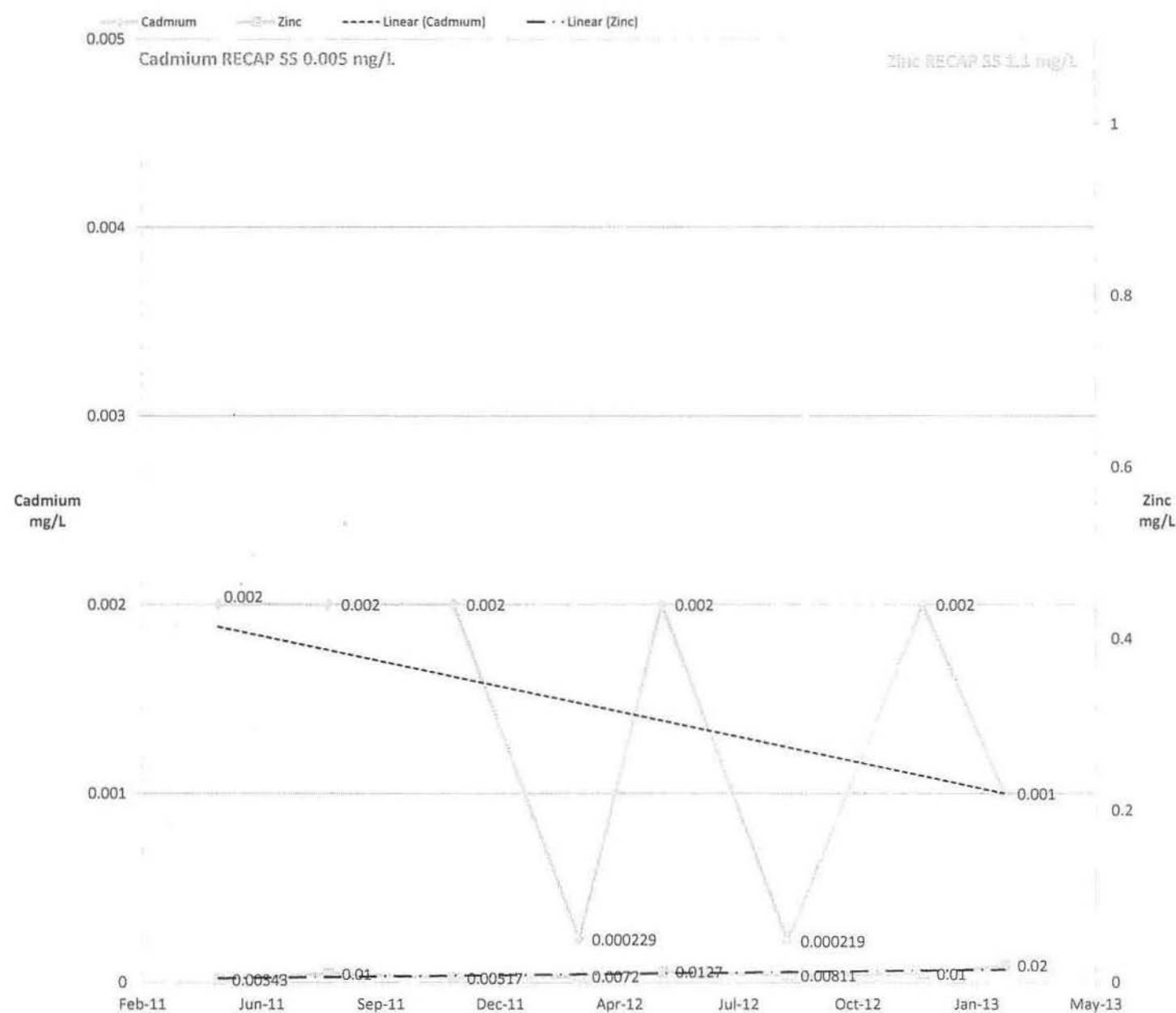
BB-01 Arsenic and Manganese



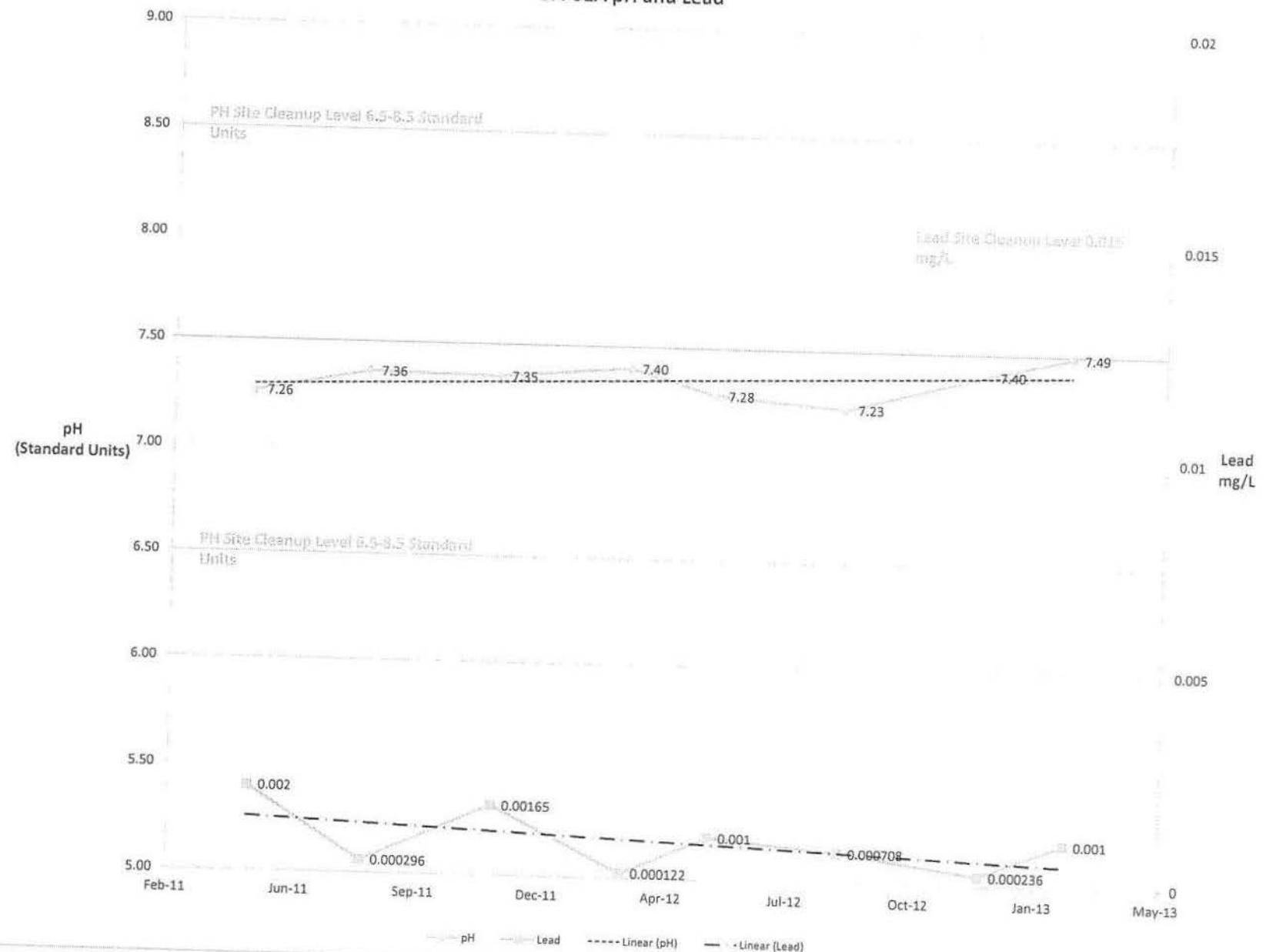
BB-01 Nickel and Thallium



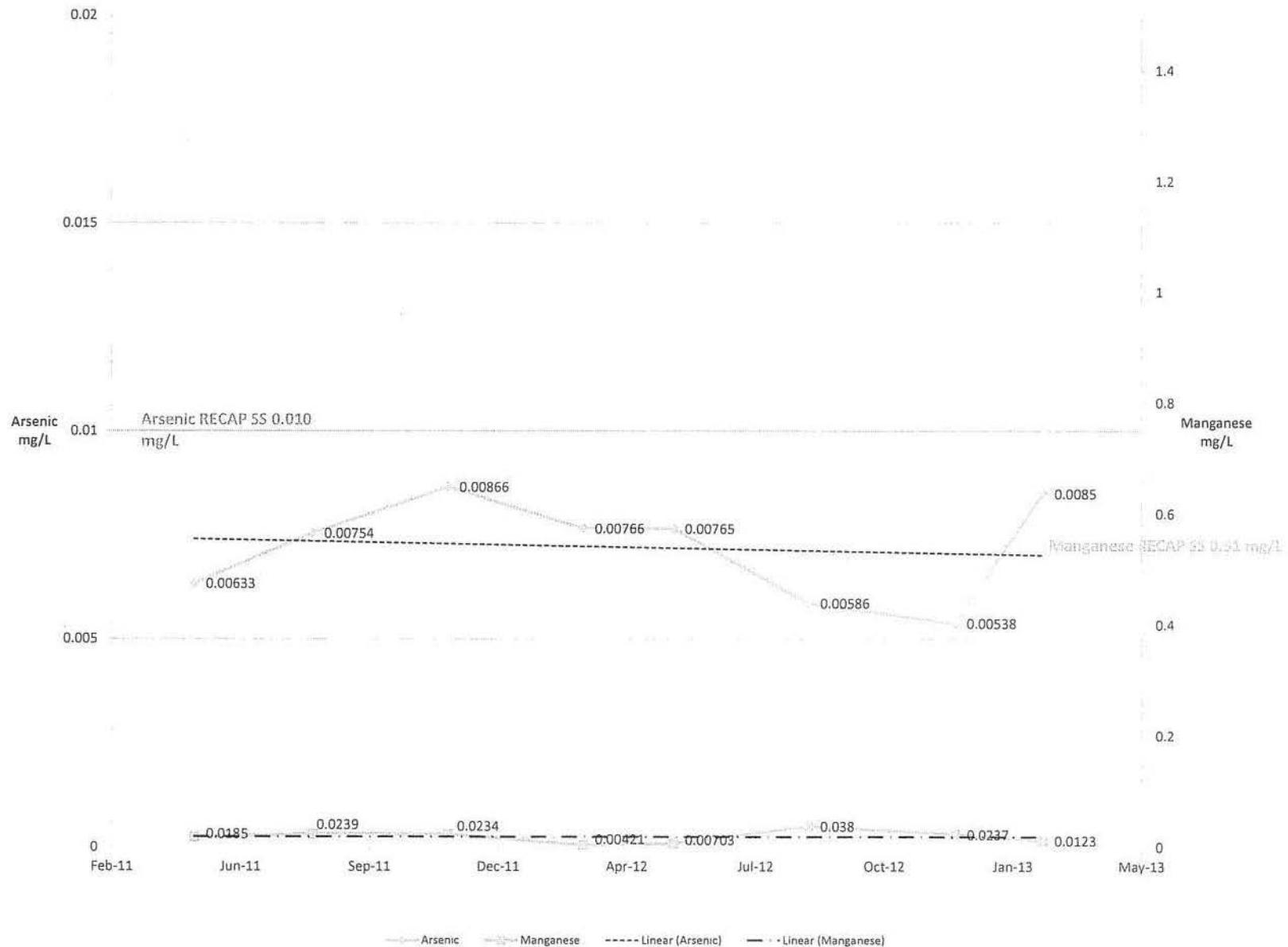
BB-01 Cadmium and Zinc

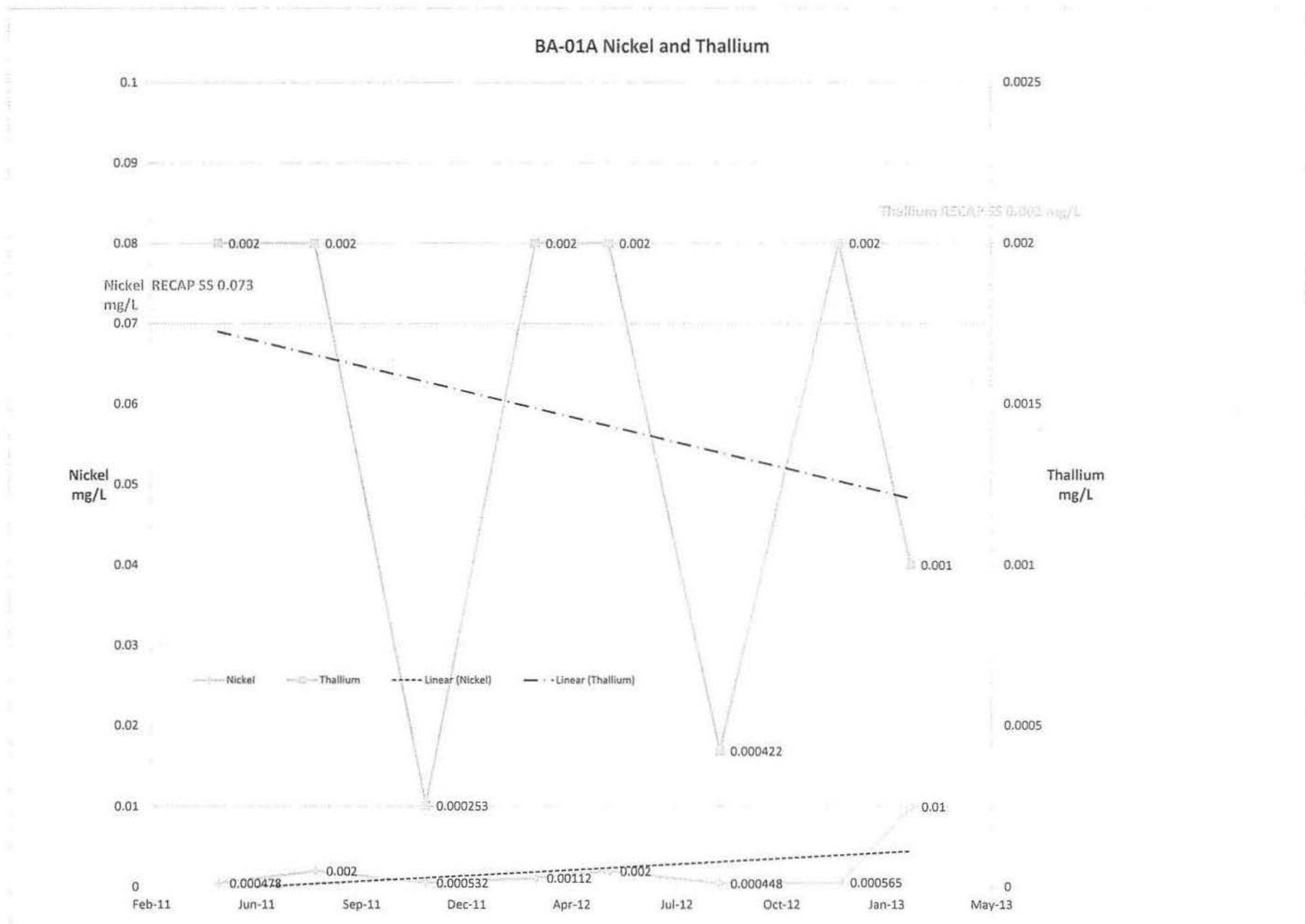


BA-01A pH and Lead

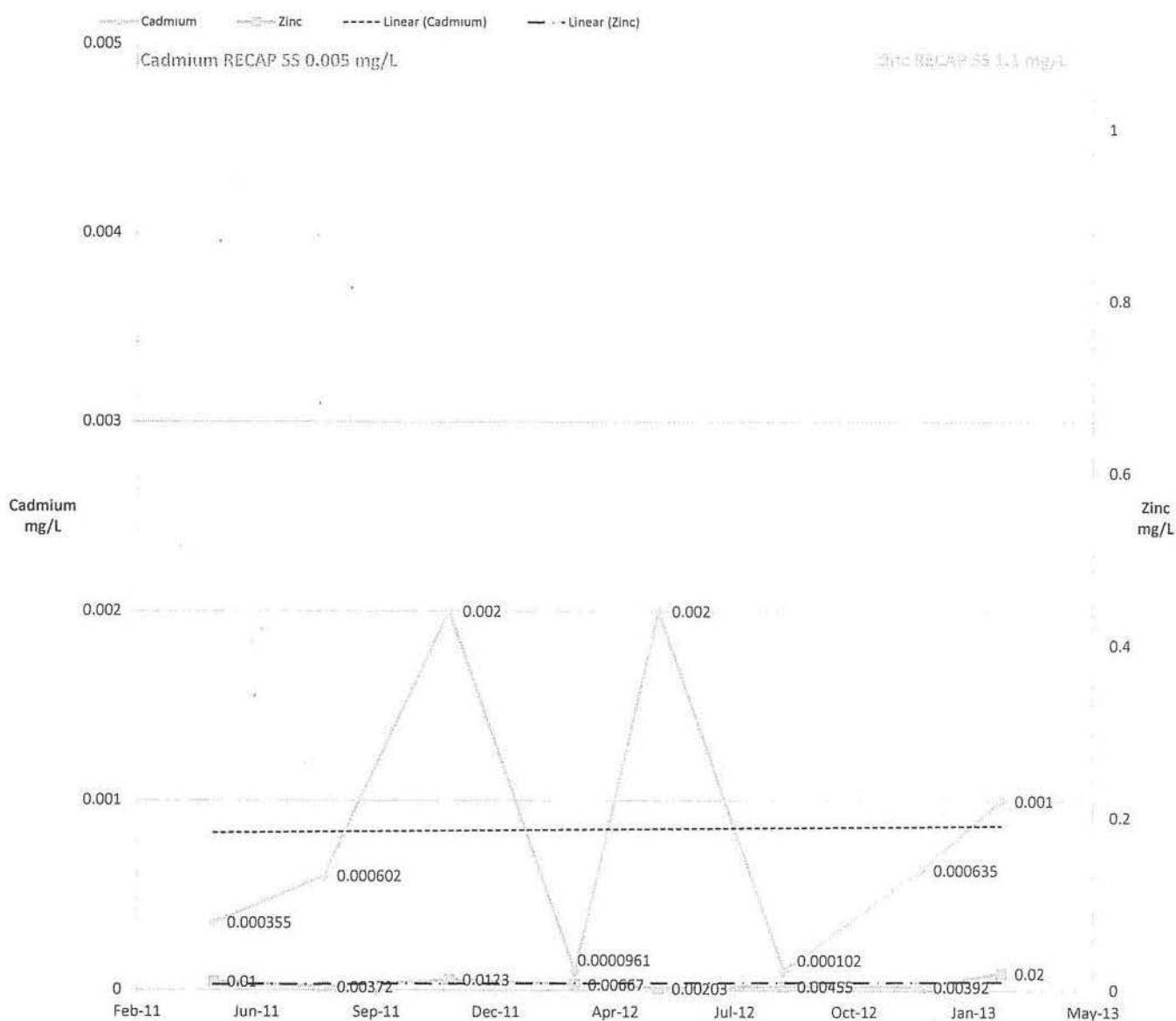


BA-01A Arsenic and Manganese



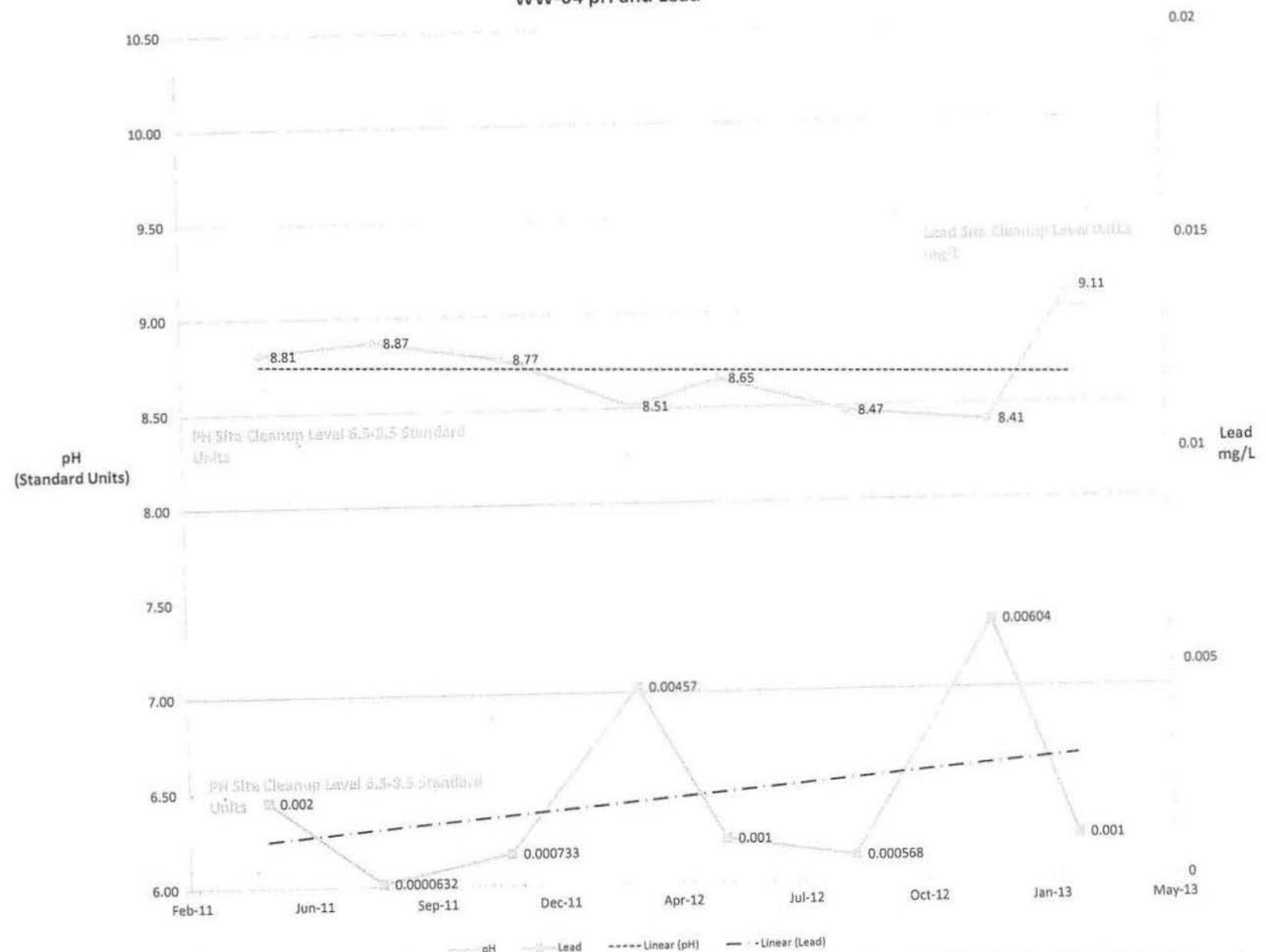


BA-01A Cadmium and Zinc

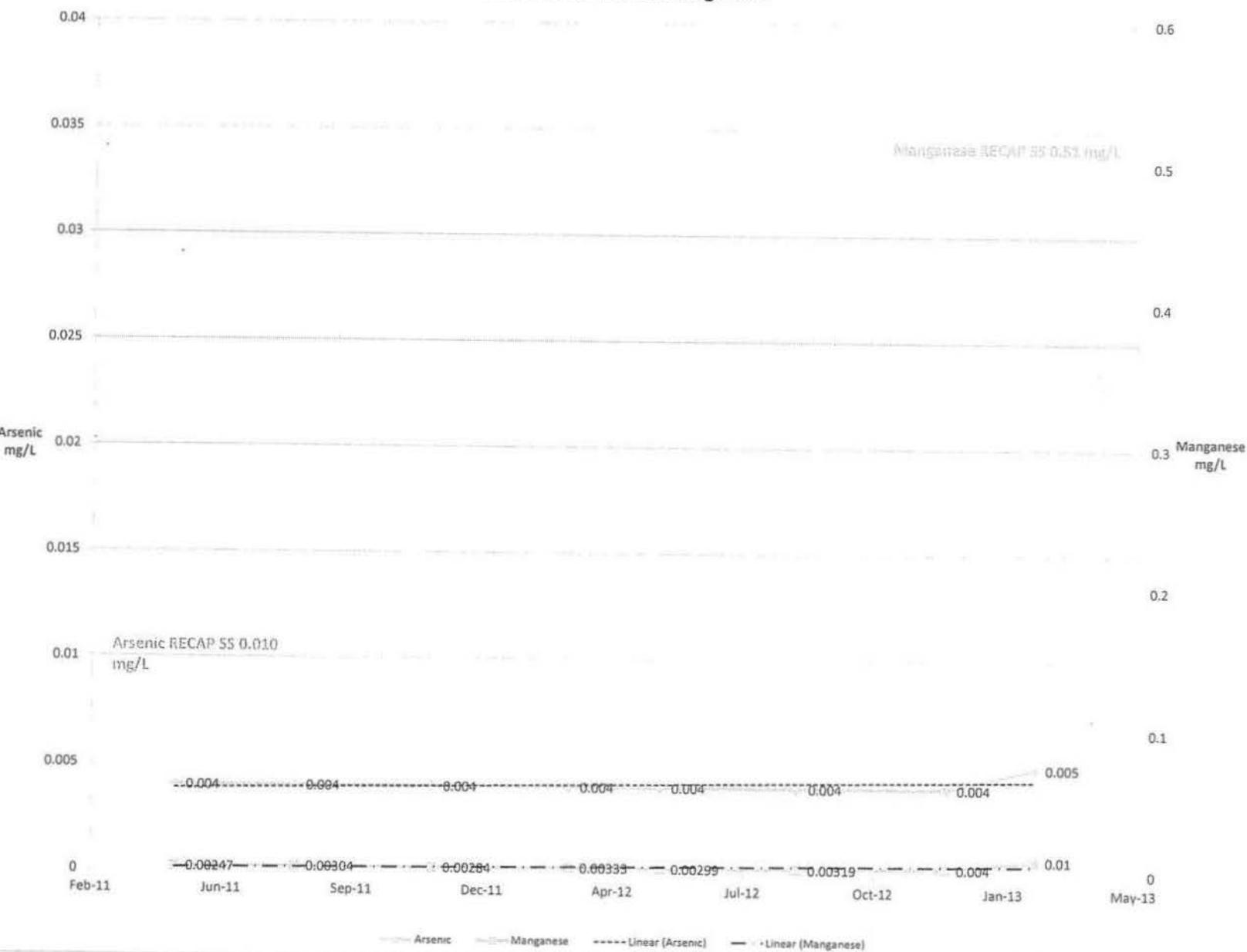


**WATER WELLS
(PAST EIGHT QUARTERS)**

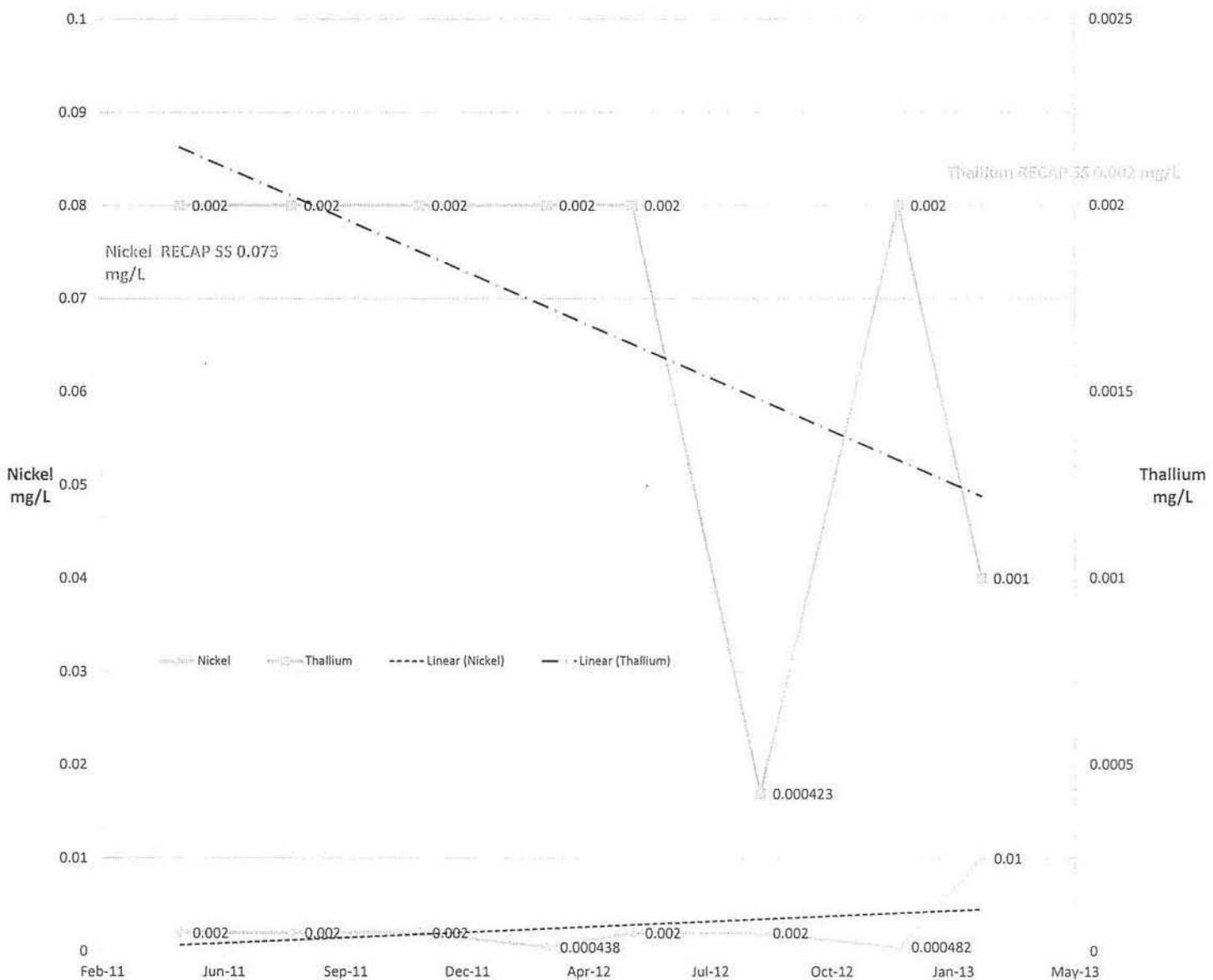
WW-04 pH and Lead



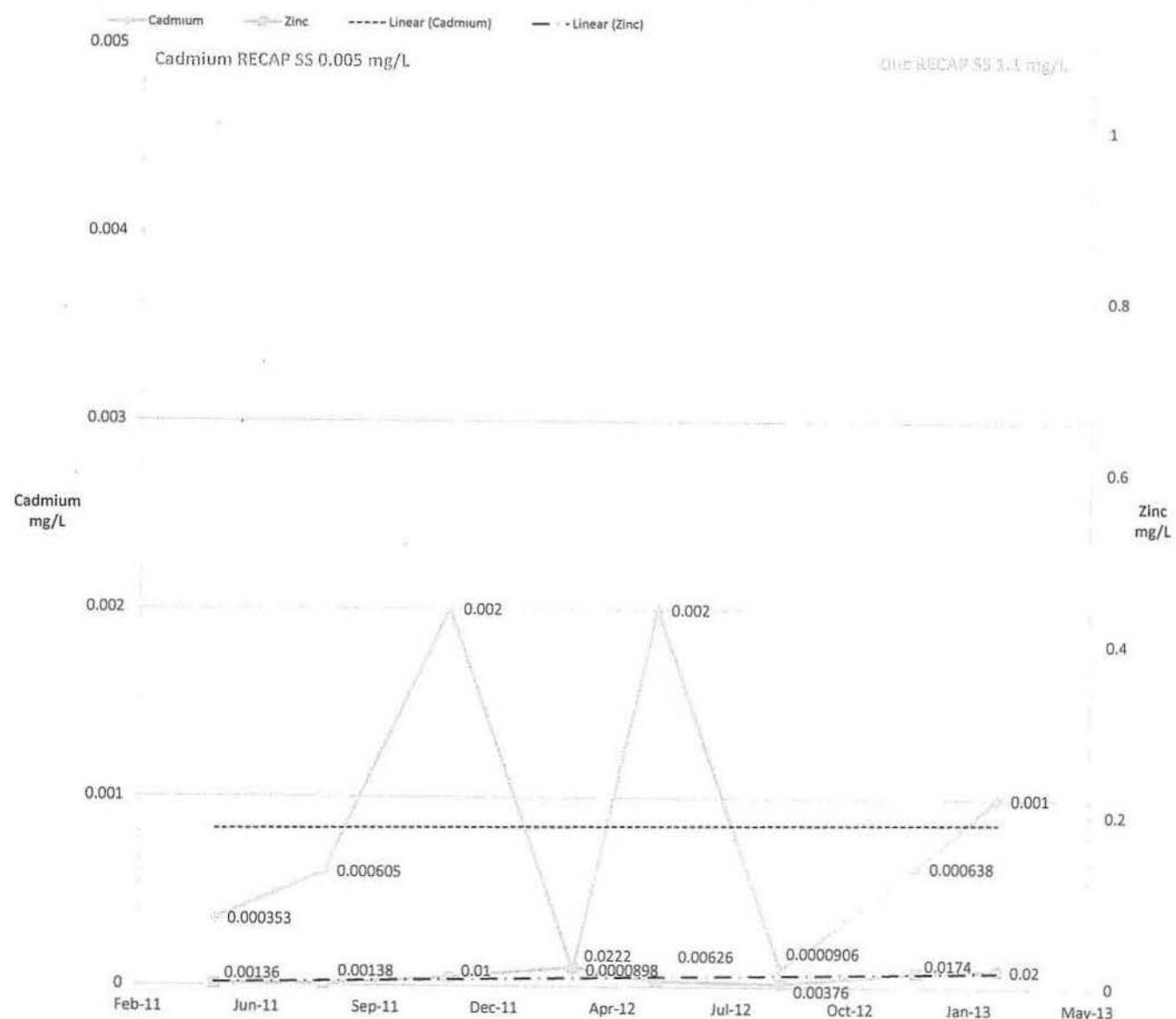
WW-04 Arsenic and Manganese

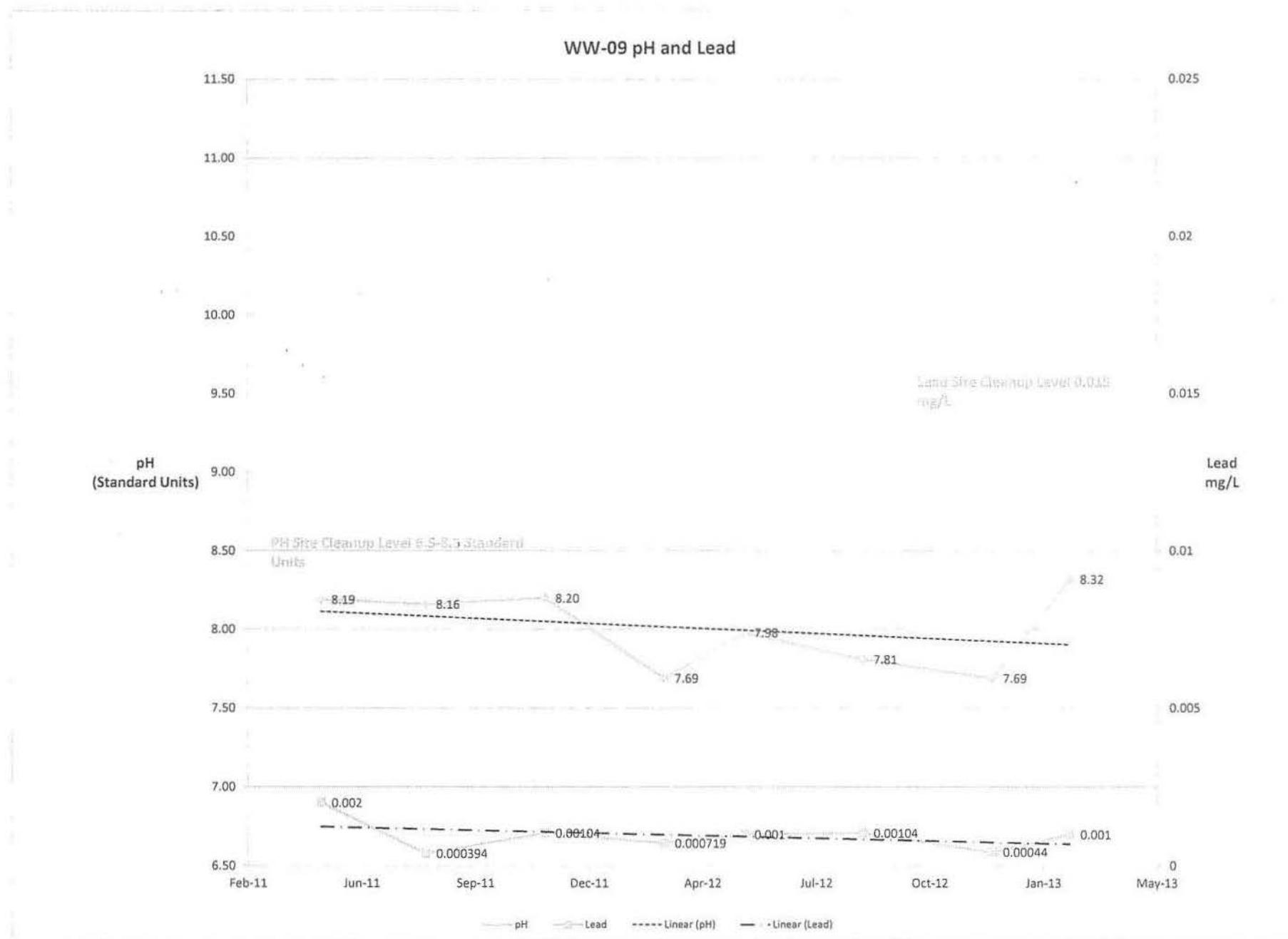


WW-04 Nickel and Thallium

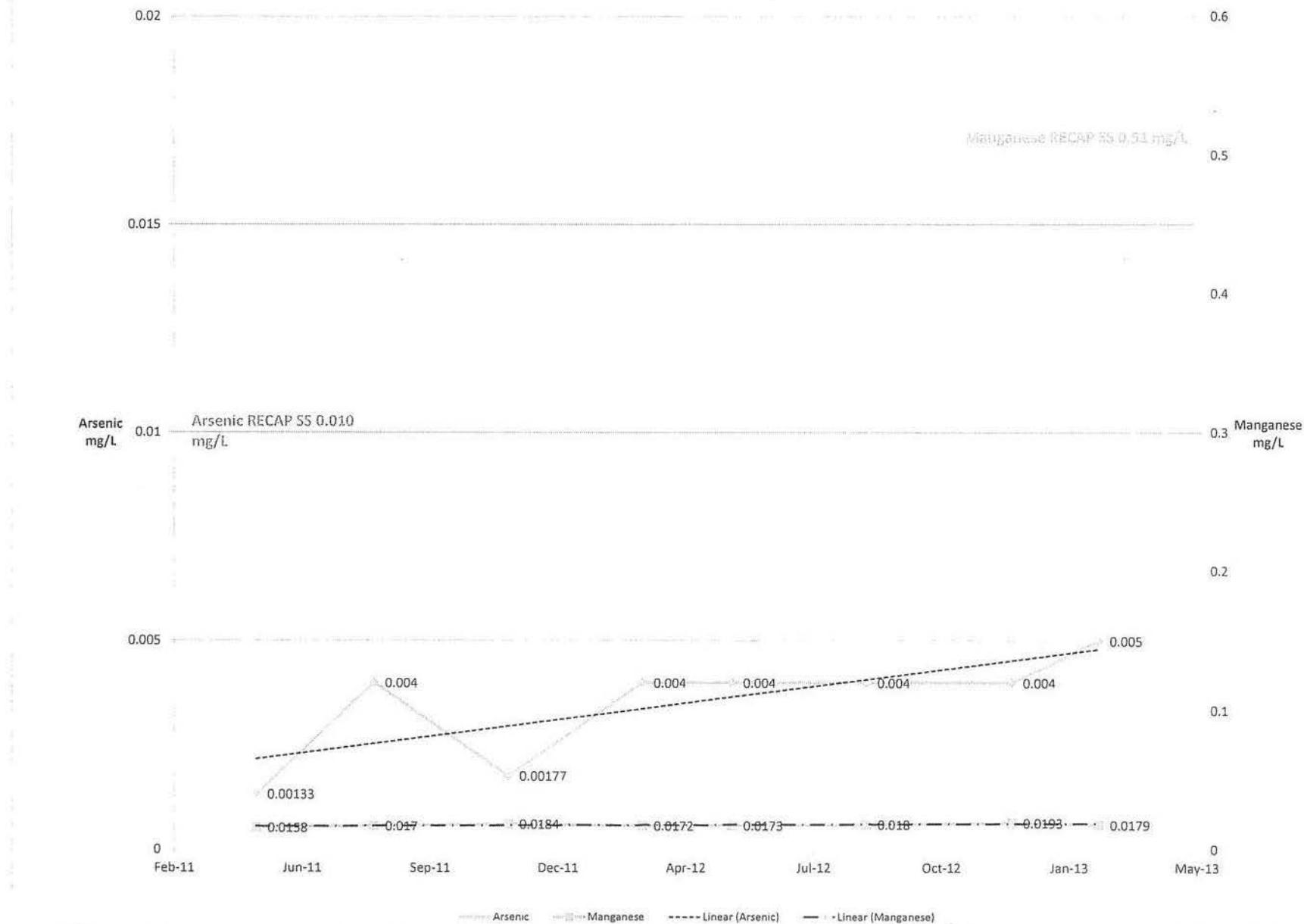


WW-04 Cadmium and Zinc

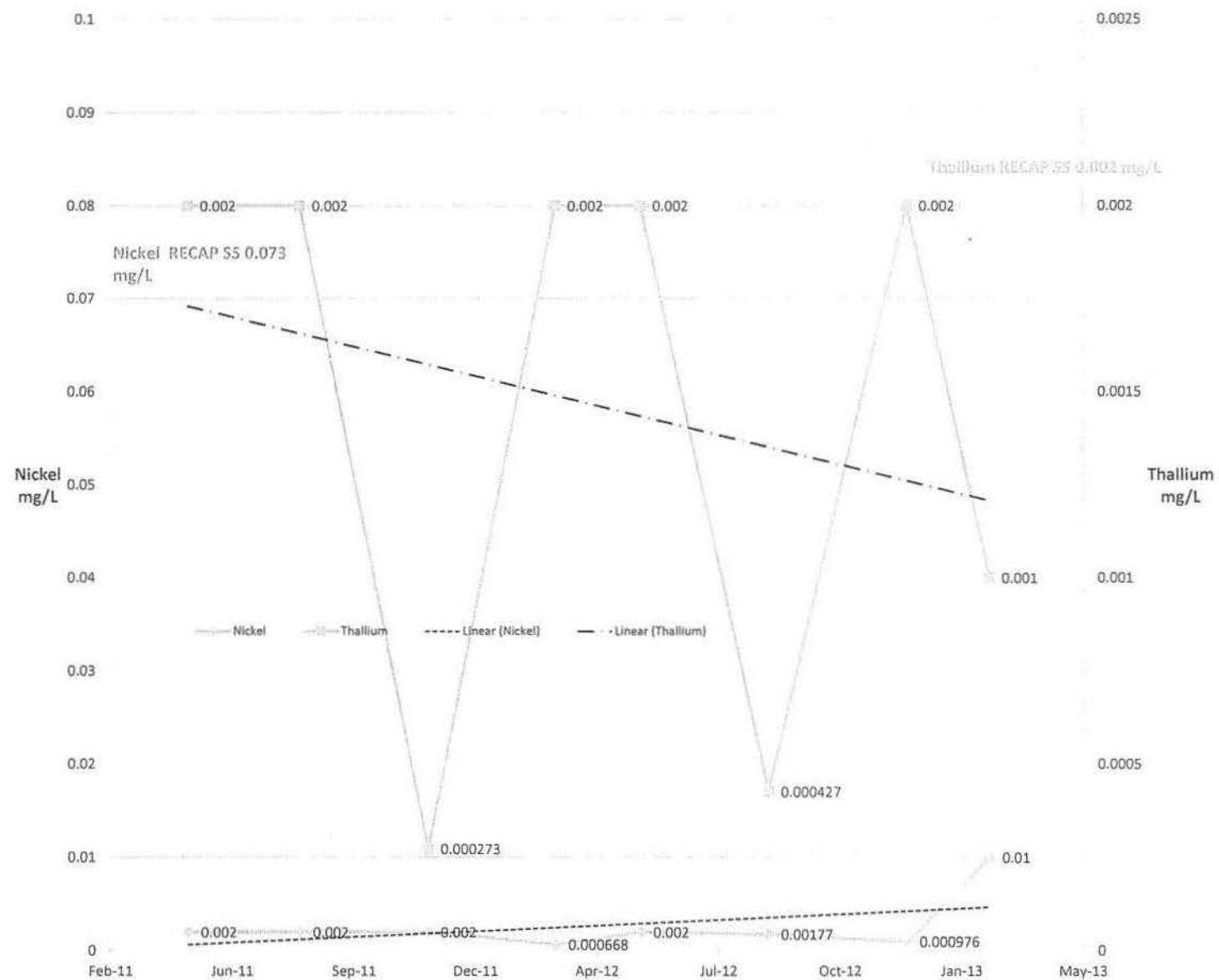




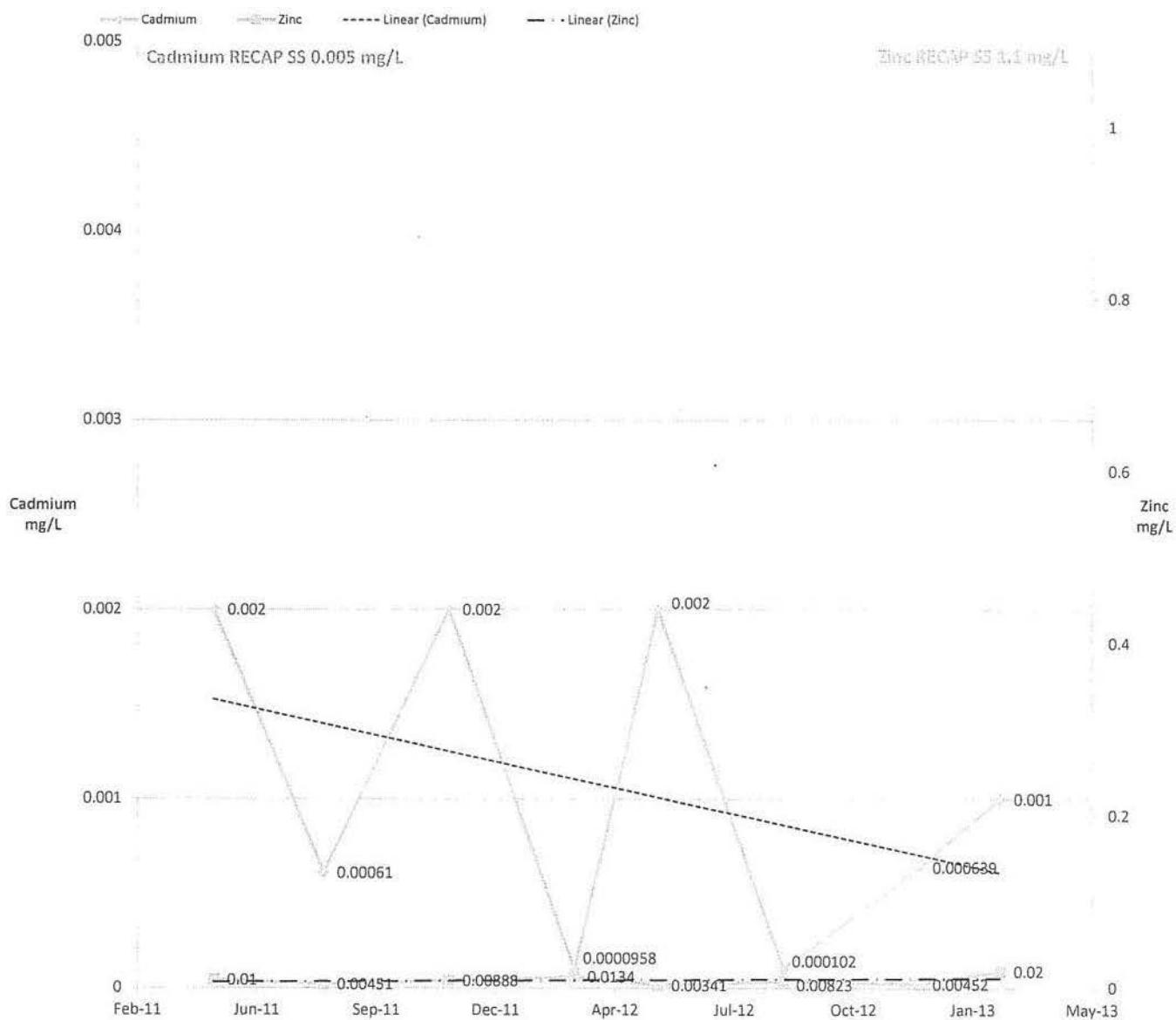
WW-09 Arsenic and Manganese



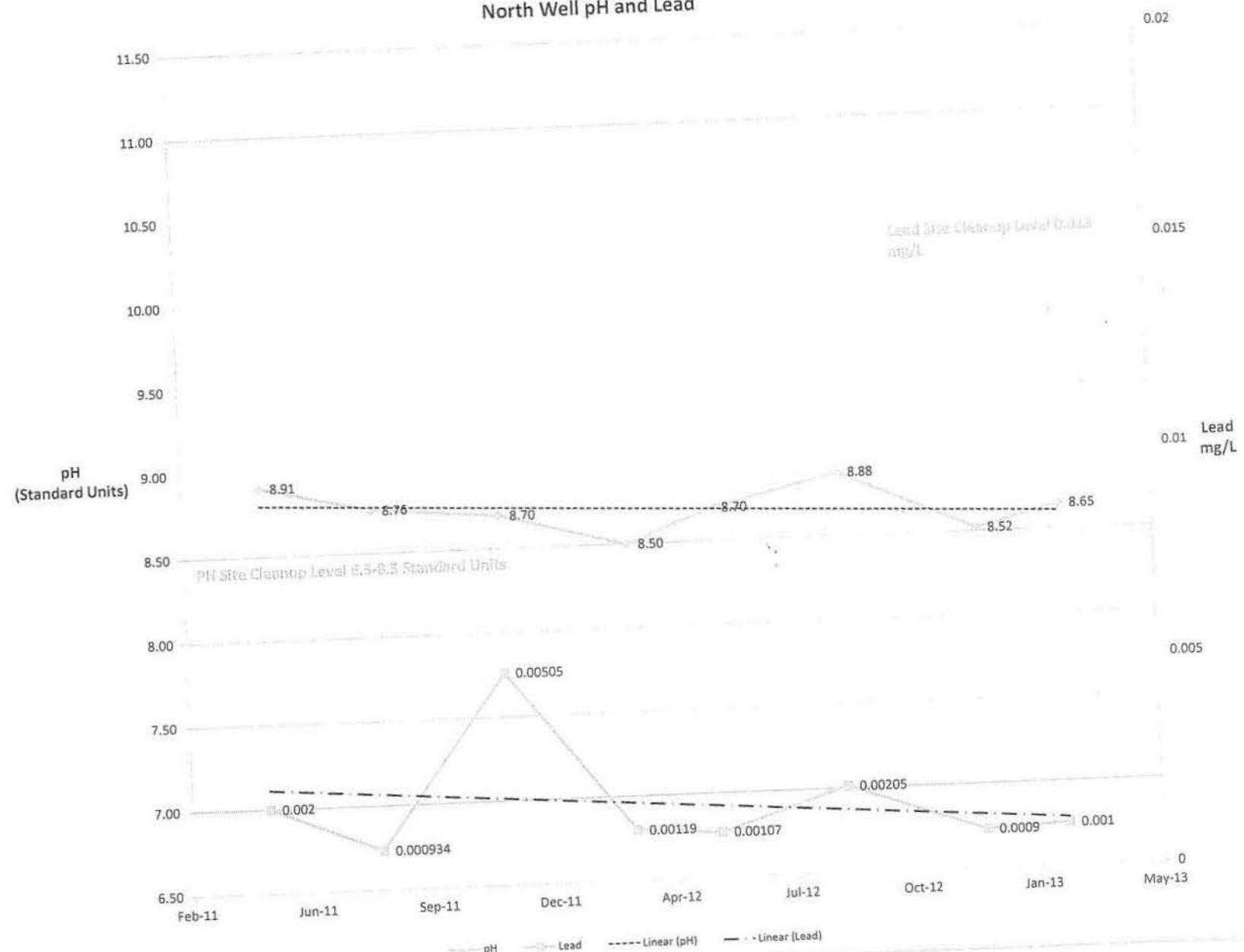
WW-09 Nickel and Thallium



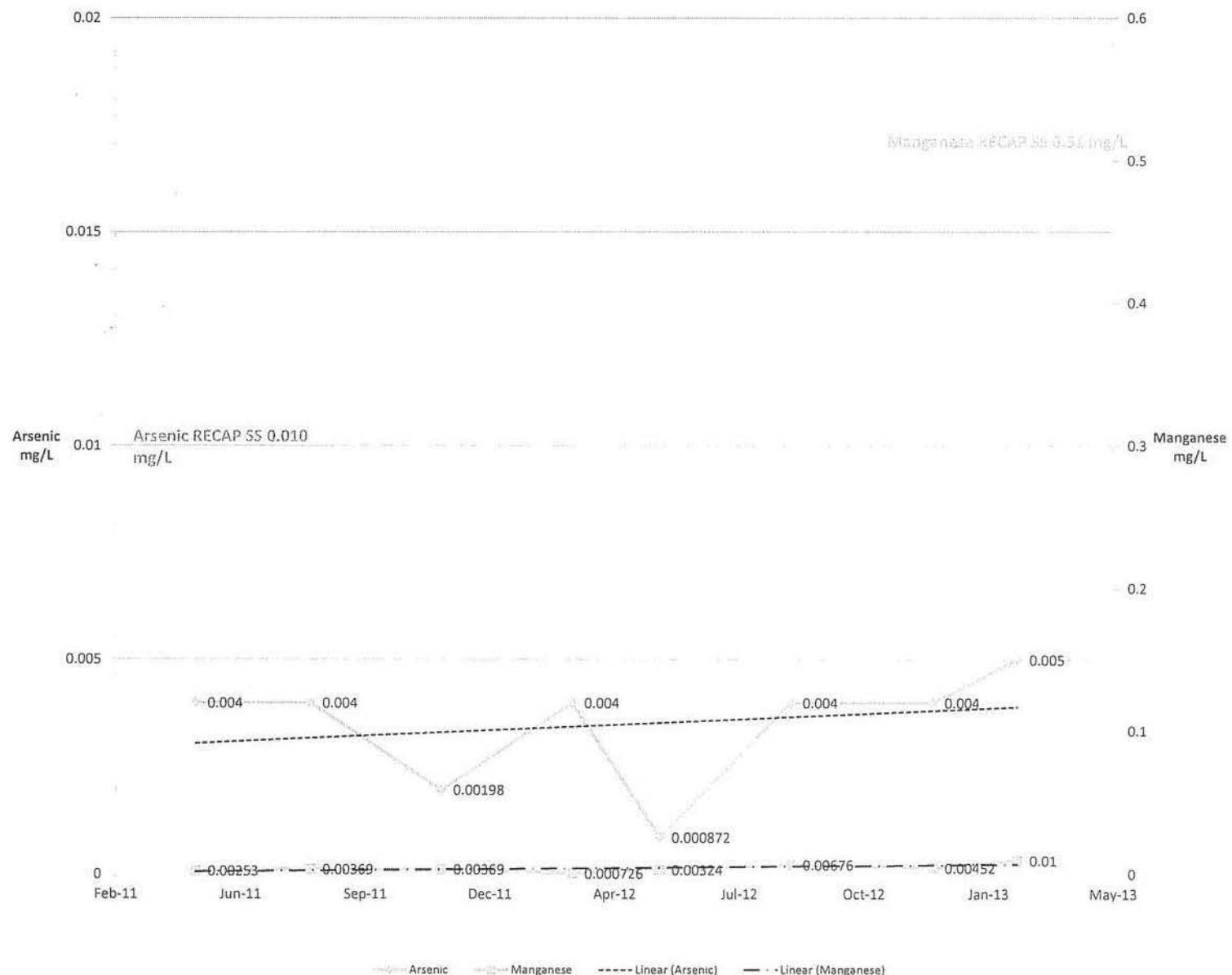
WW-09 Cadmium and Zinc



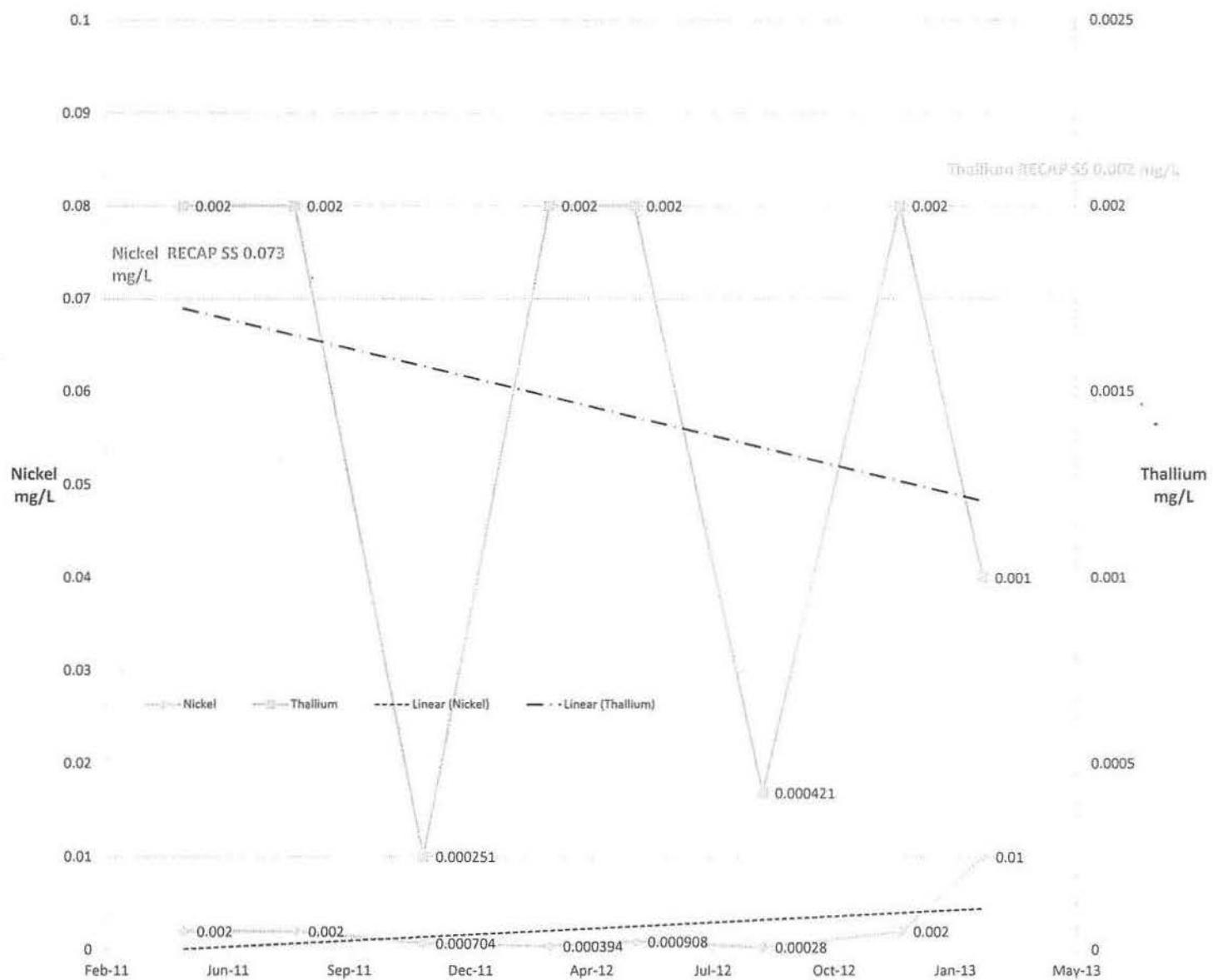
North Well pH and Lead



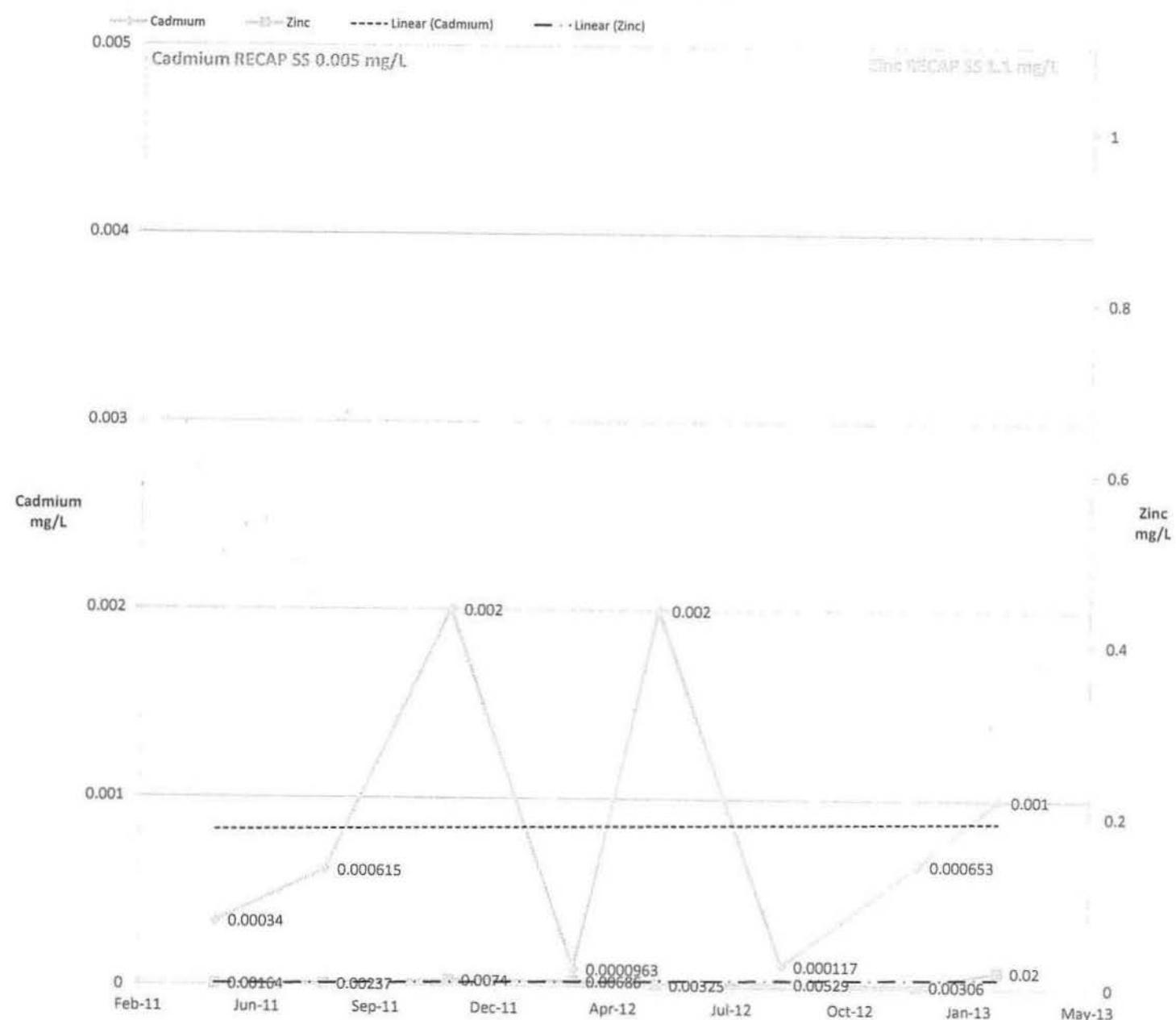
North Well Arsenic and Manganese

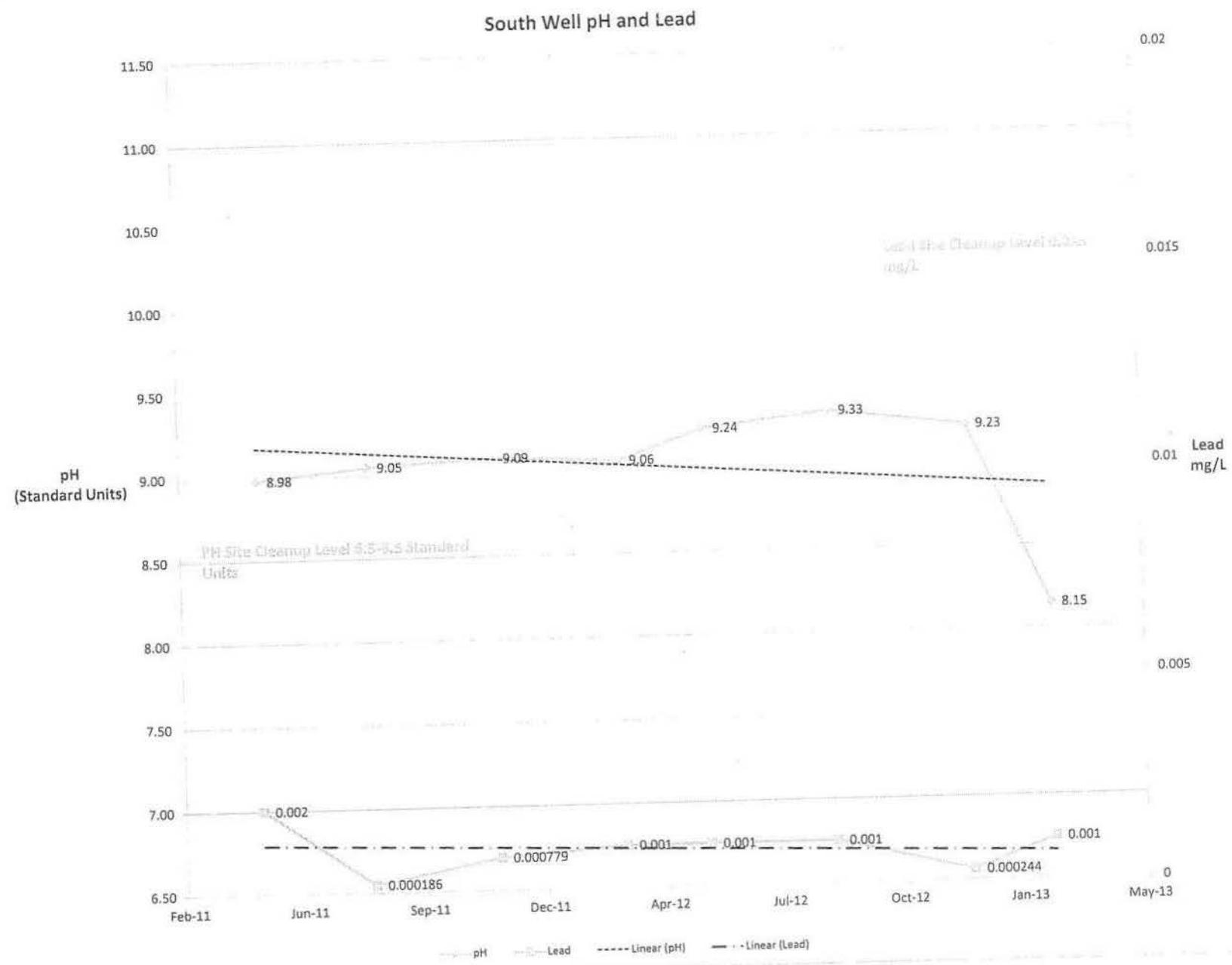


North Well Nickel and Thallium

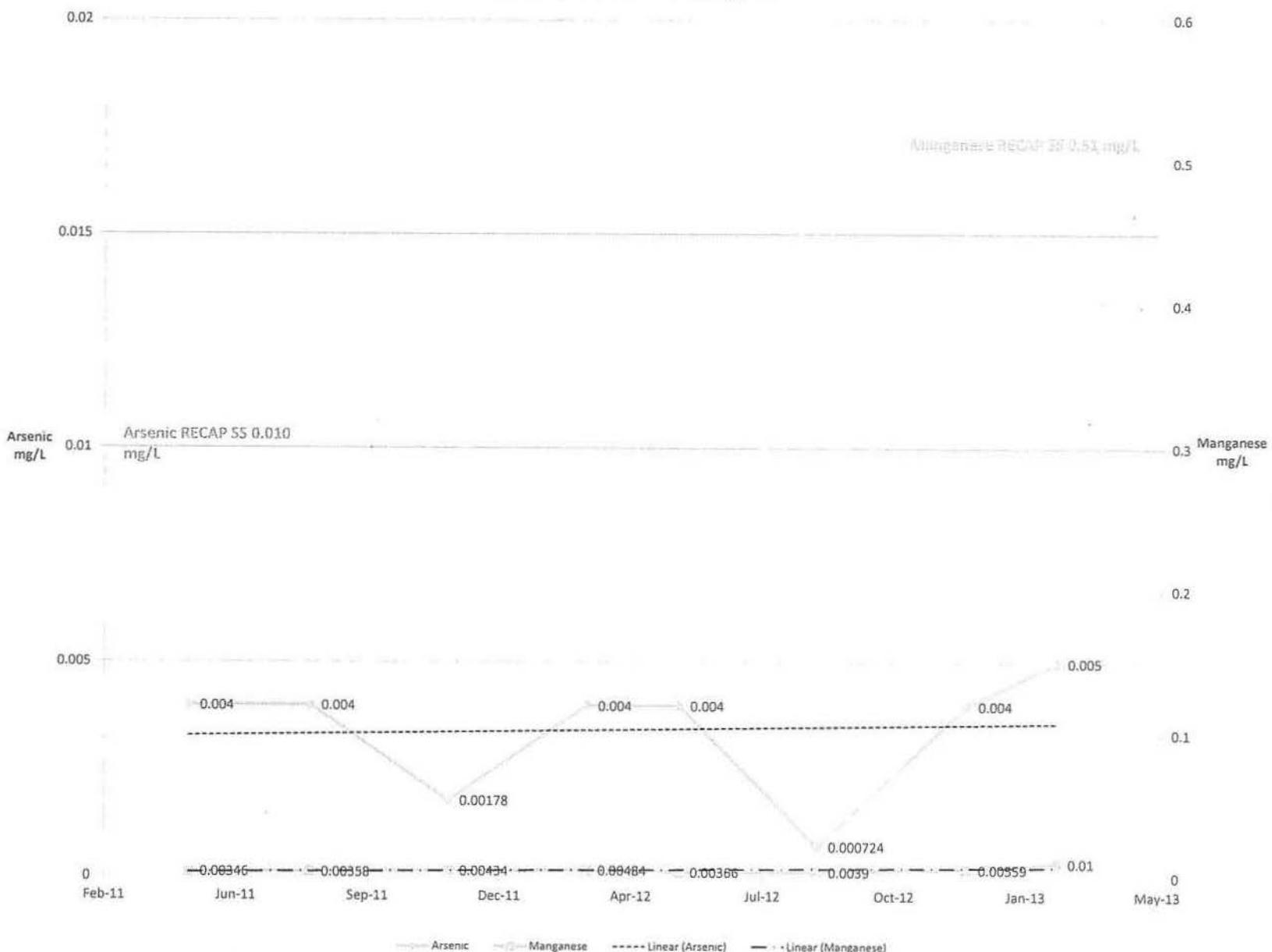


North Well Cadmium and Zinc

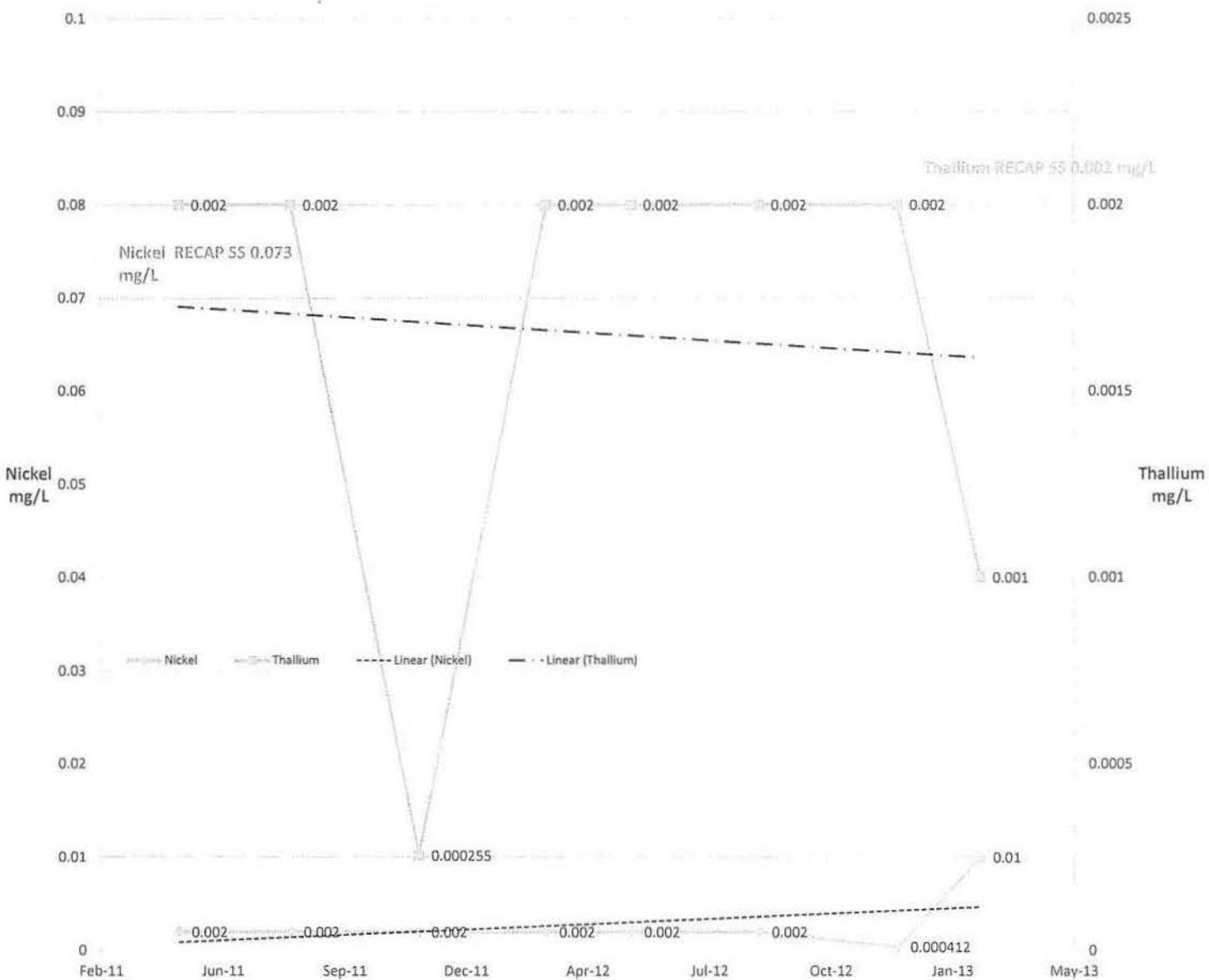




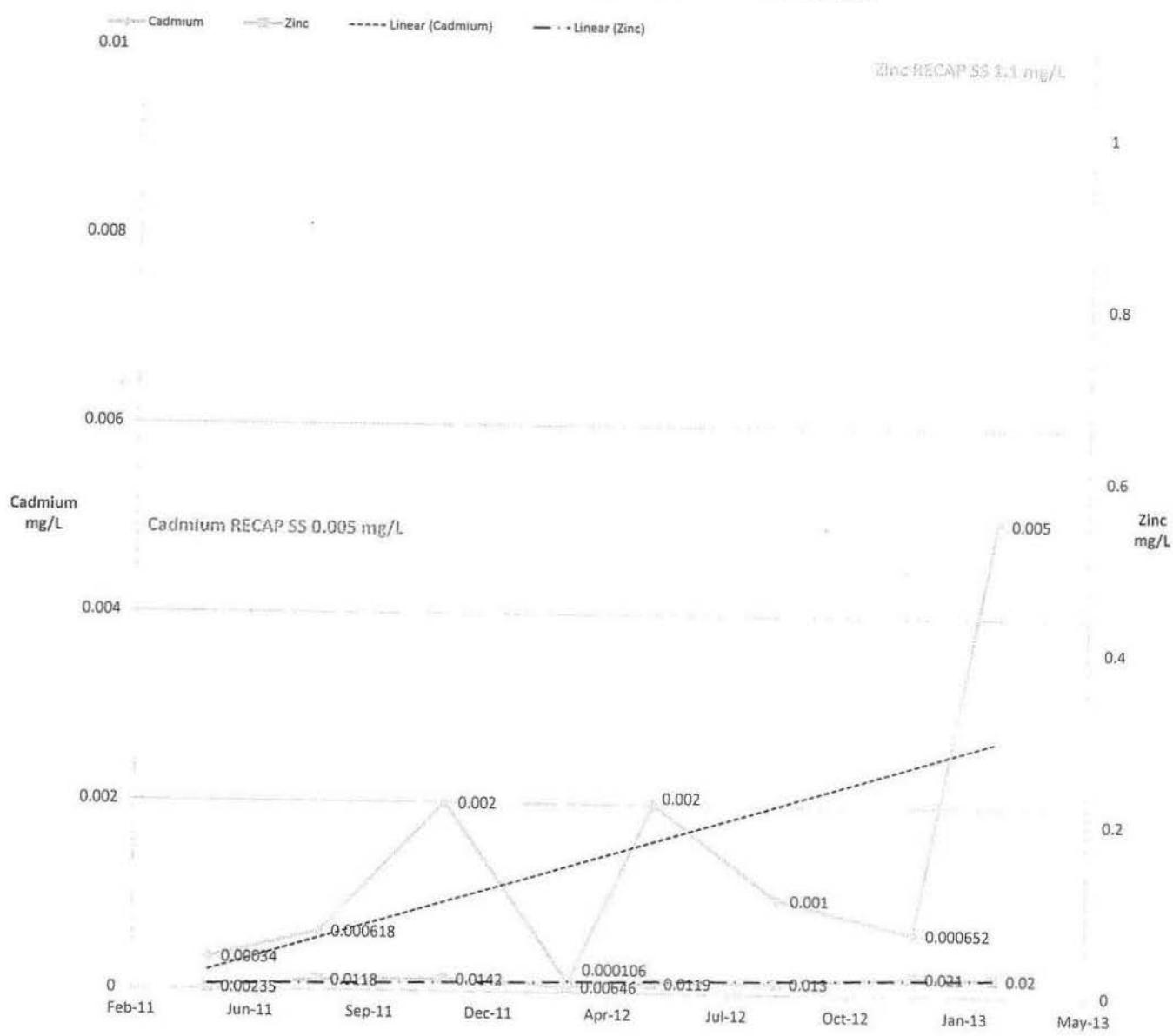
South Well Arsenic and Manganese



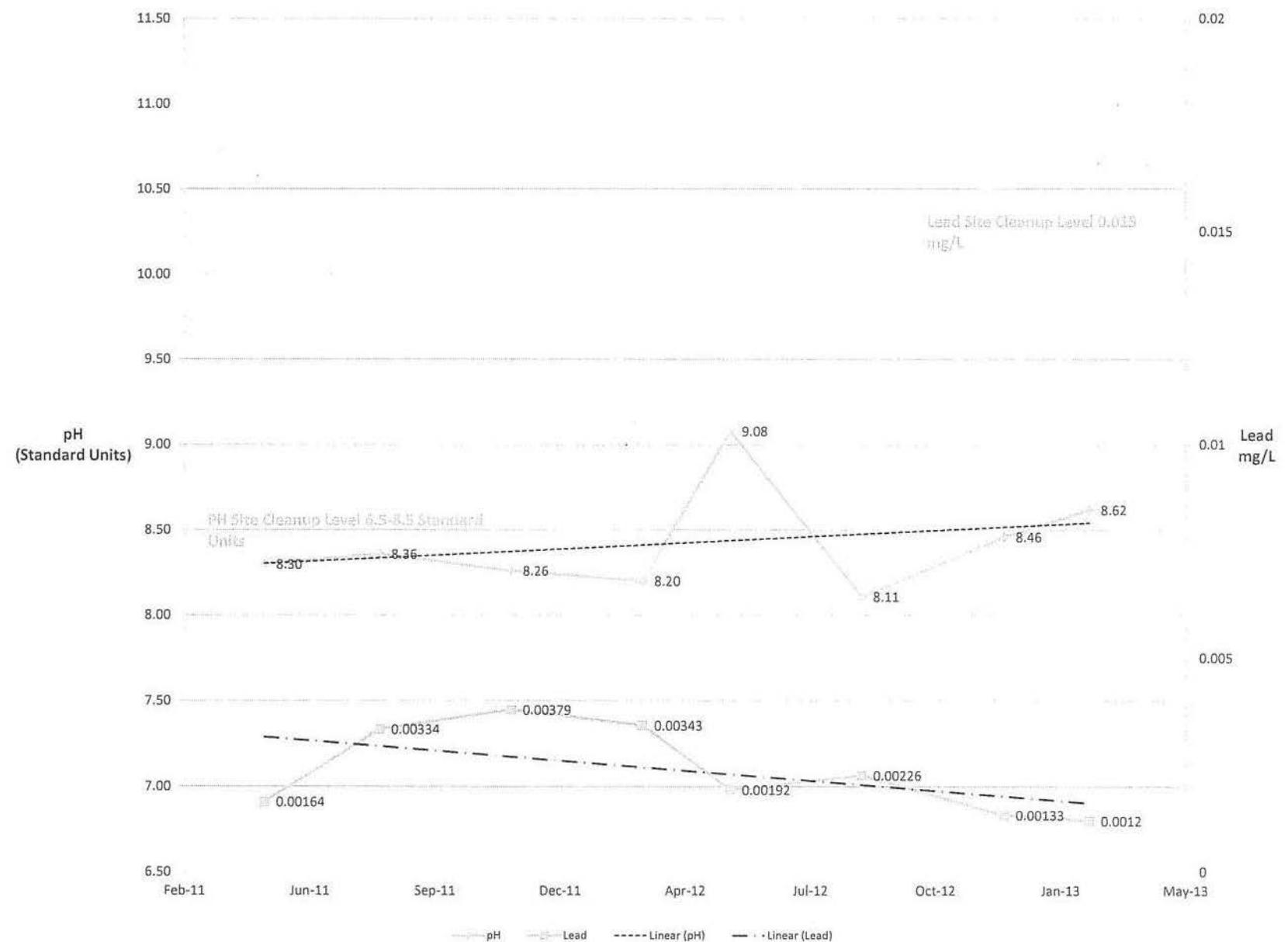
South Well Nickel and Thallium



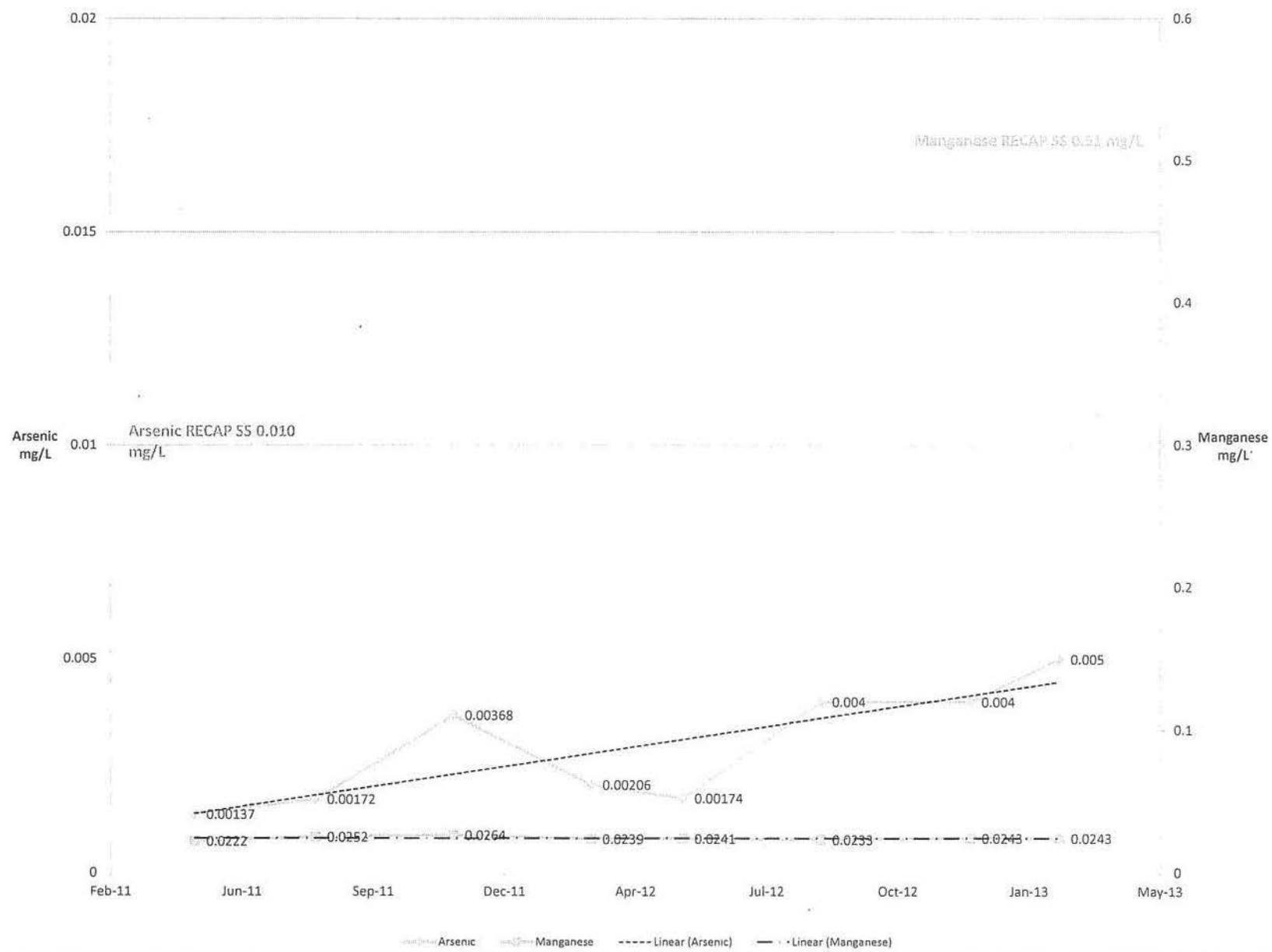
South Well Cadmium and Zinc



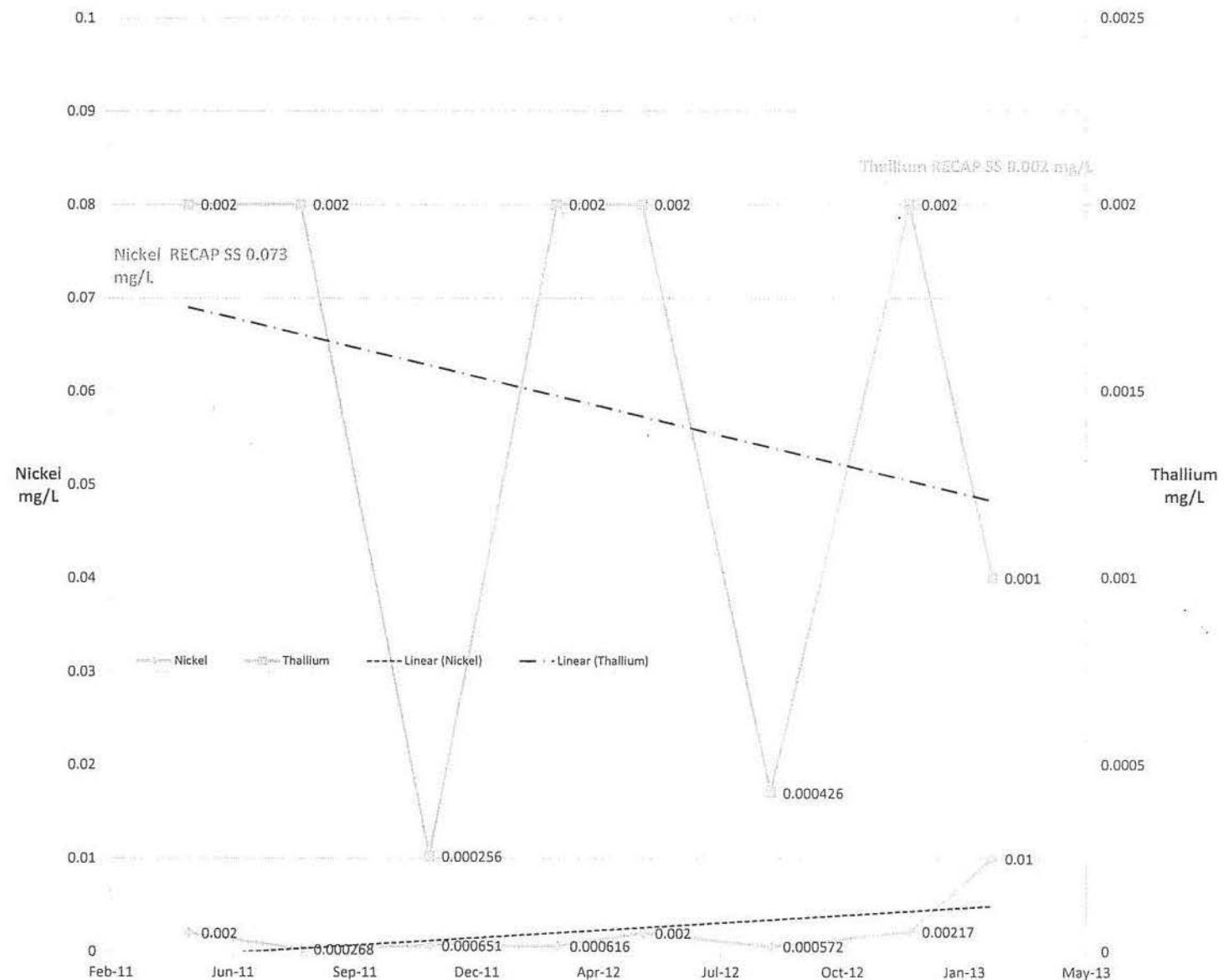
(b) (6) Well pH and Lead



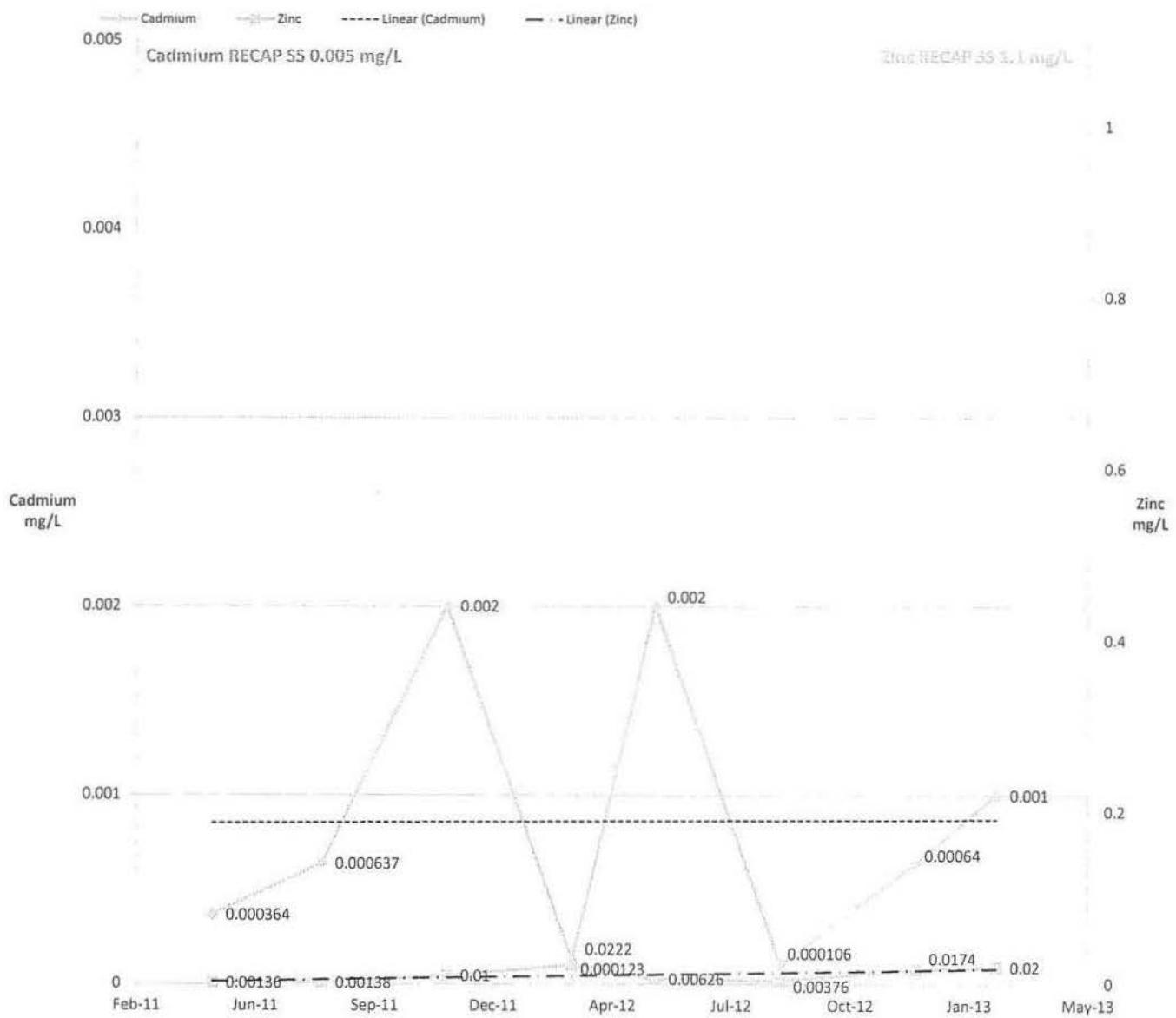
(b) (6) Well Arsenic and Manganese



(b) (6) Well Nickel and Thallium



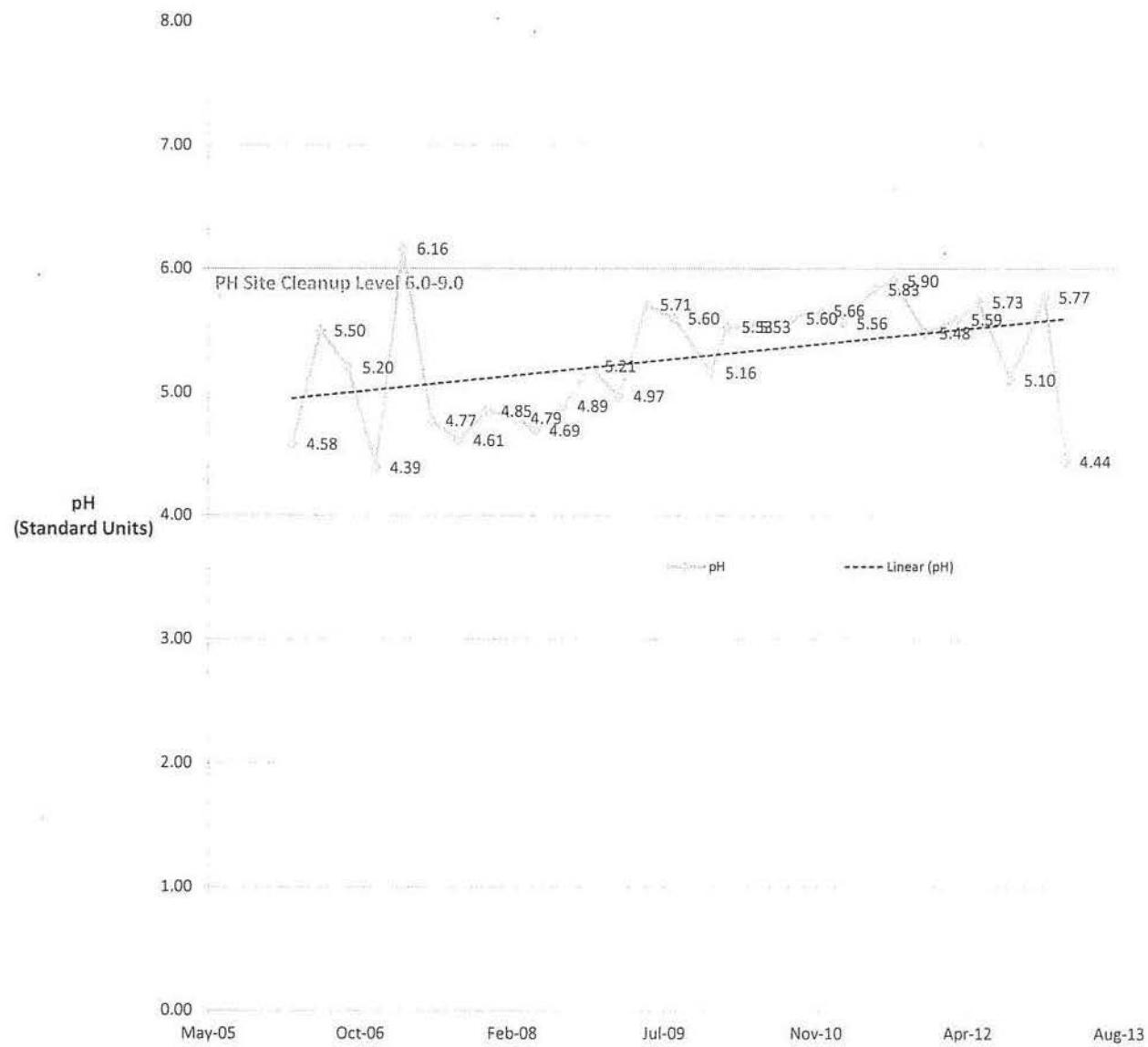
(b) (6) Well Cadmium and Zinc



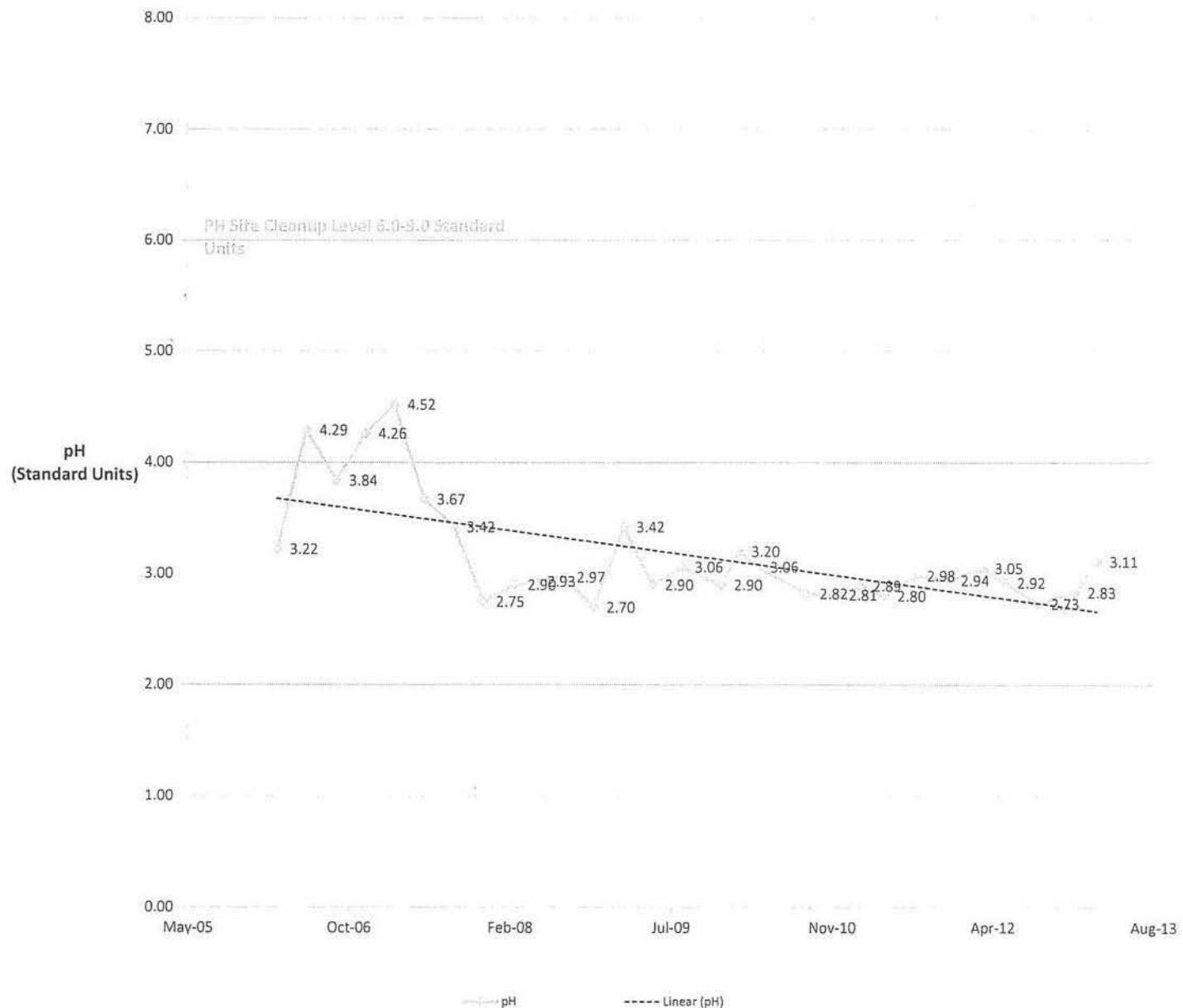
FIRST WATER BEARING ZONE

(SINCE 2006)

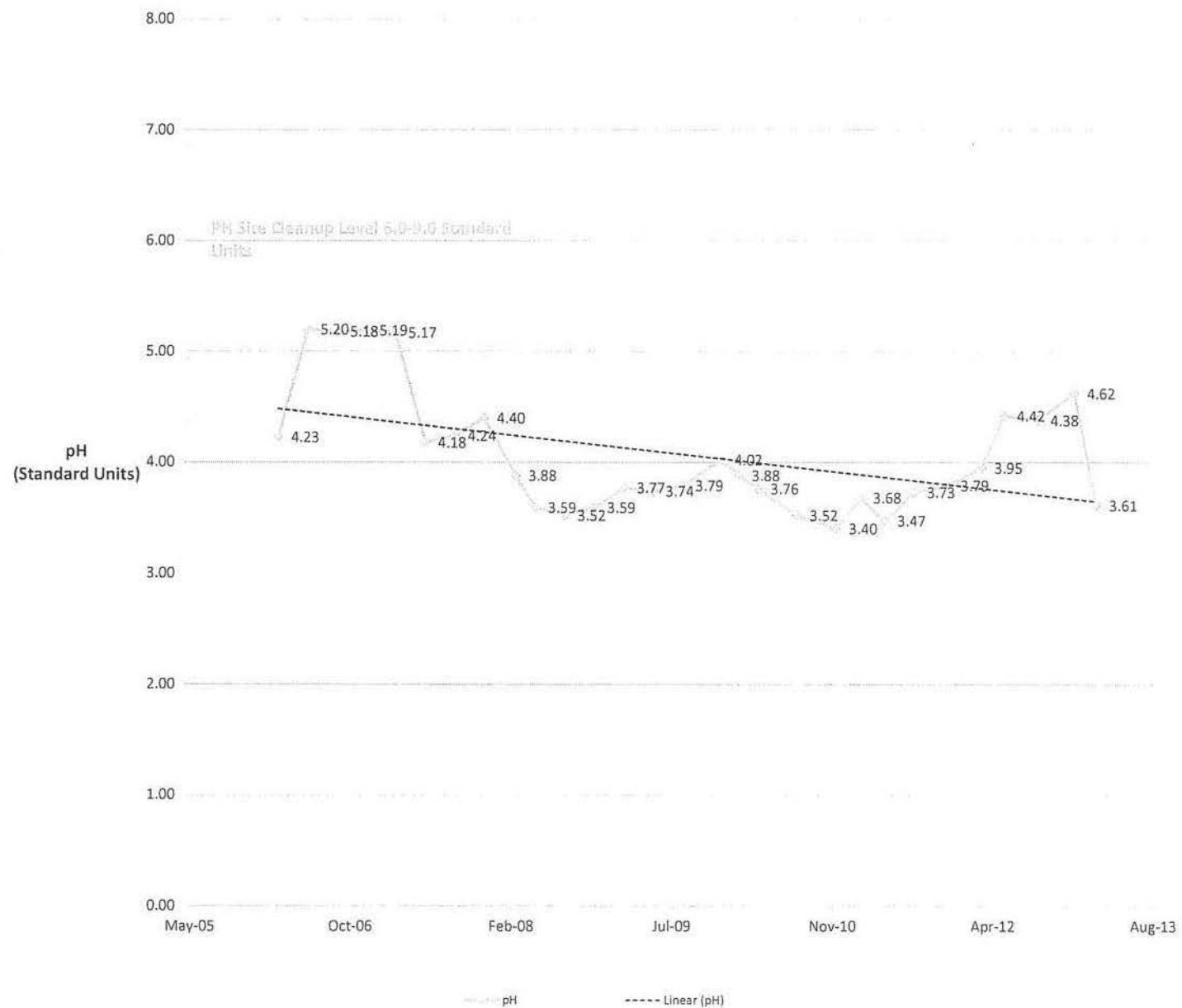
DW-1 pH (Downgradient of PRB Since 2006)



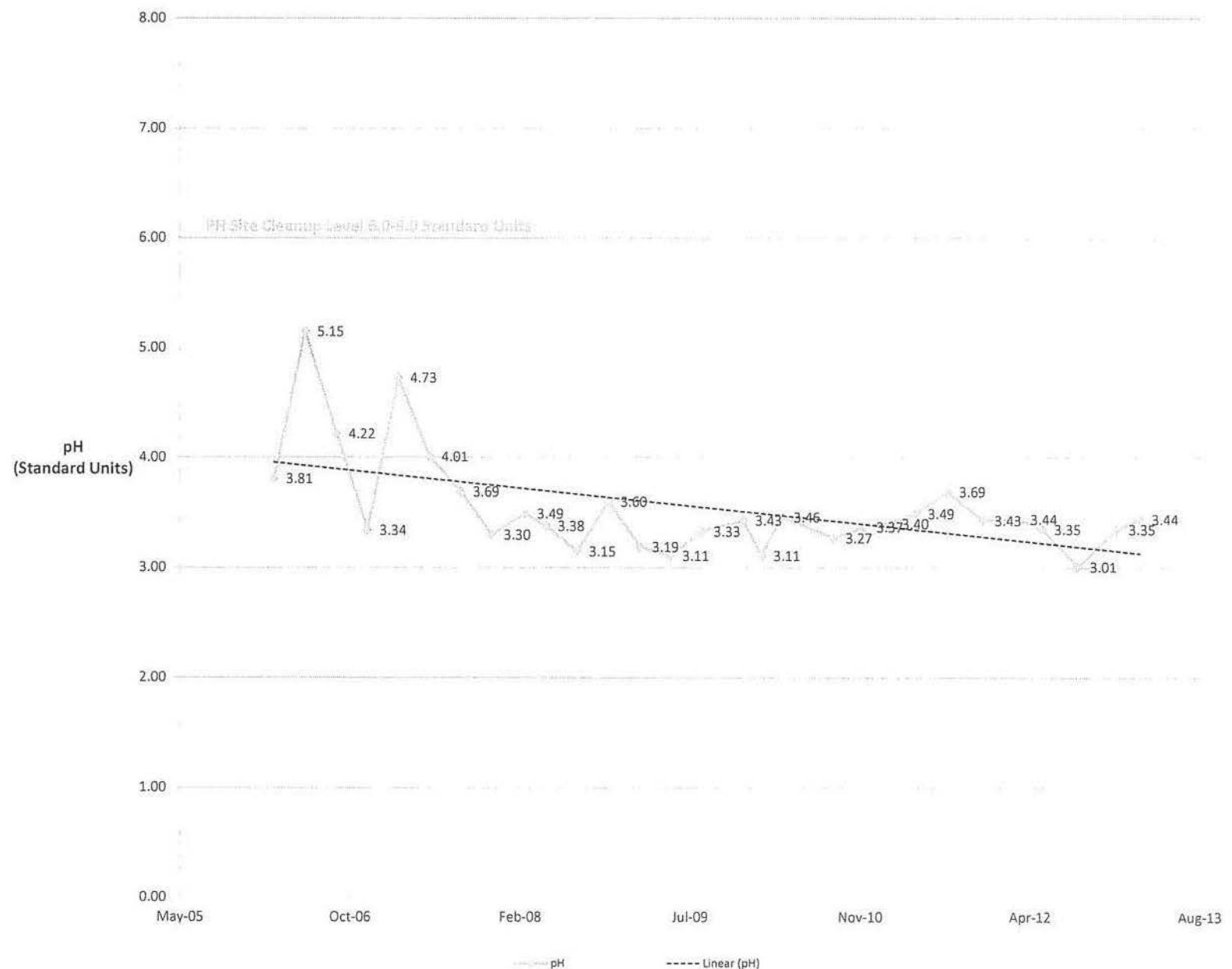
DW-2 pH (Upgradient of PRB Since 2006)



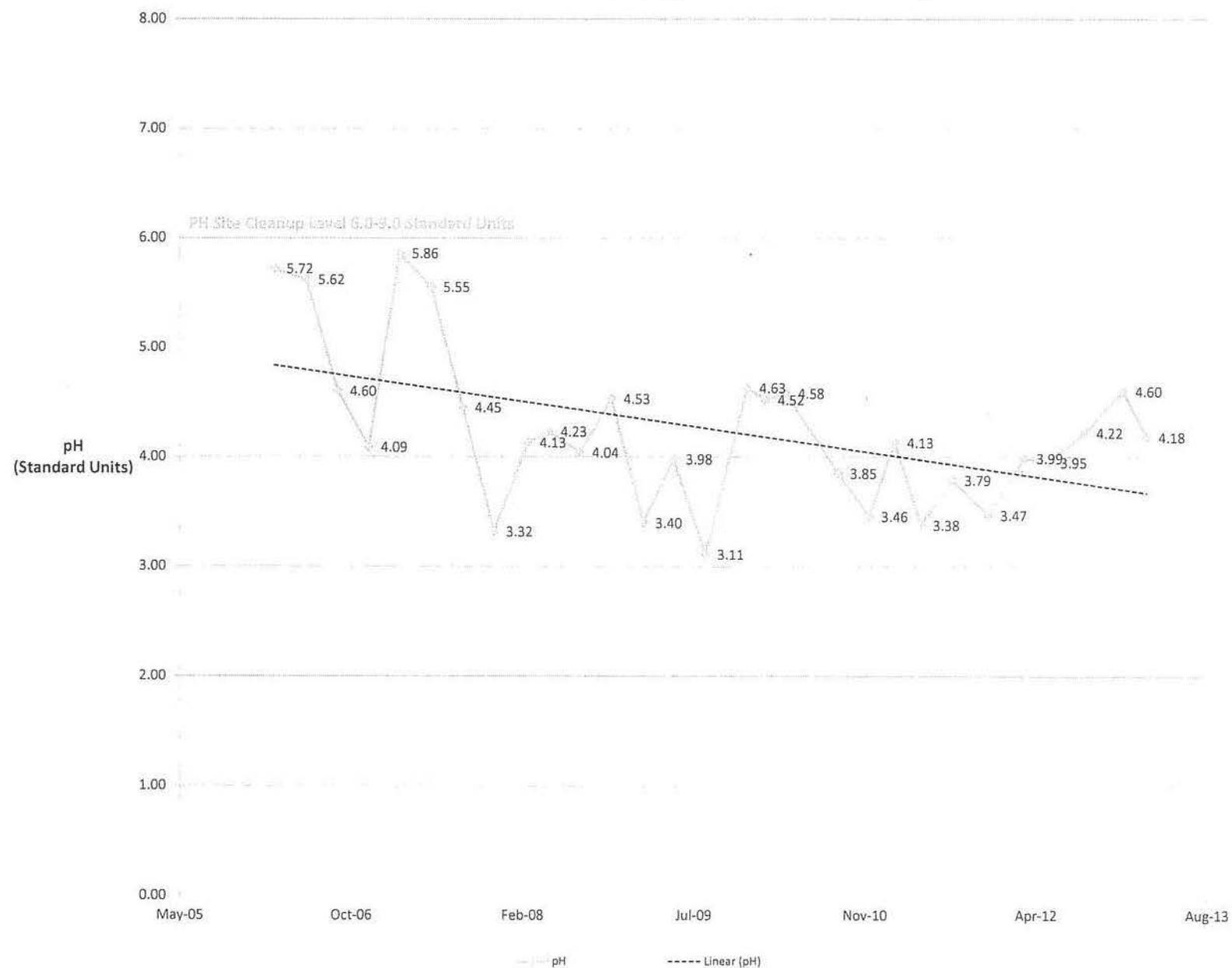
DW-3 pH (Outside of PRB Since 2006)



MW-1 pH (Downgradient of PRB Since 2006)



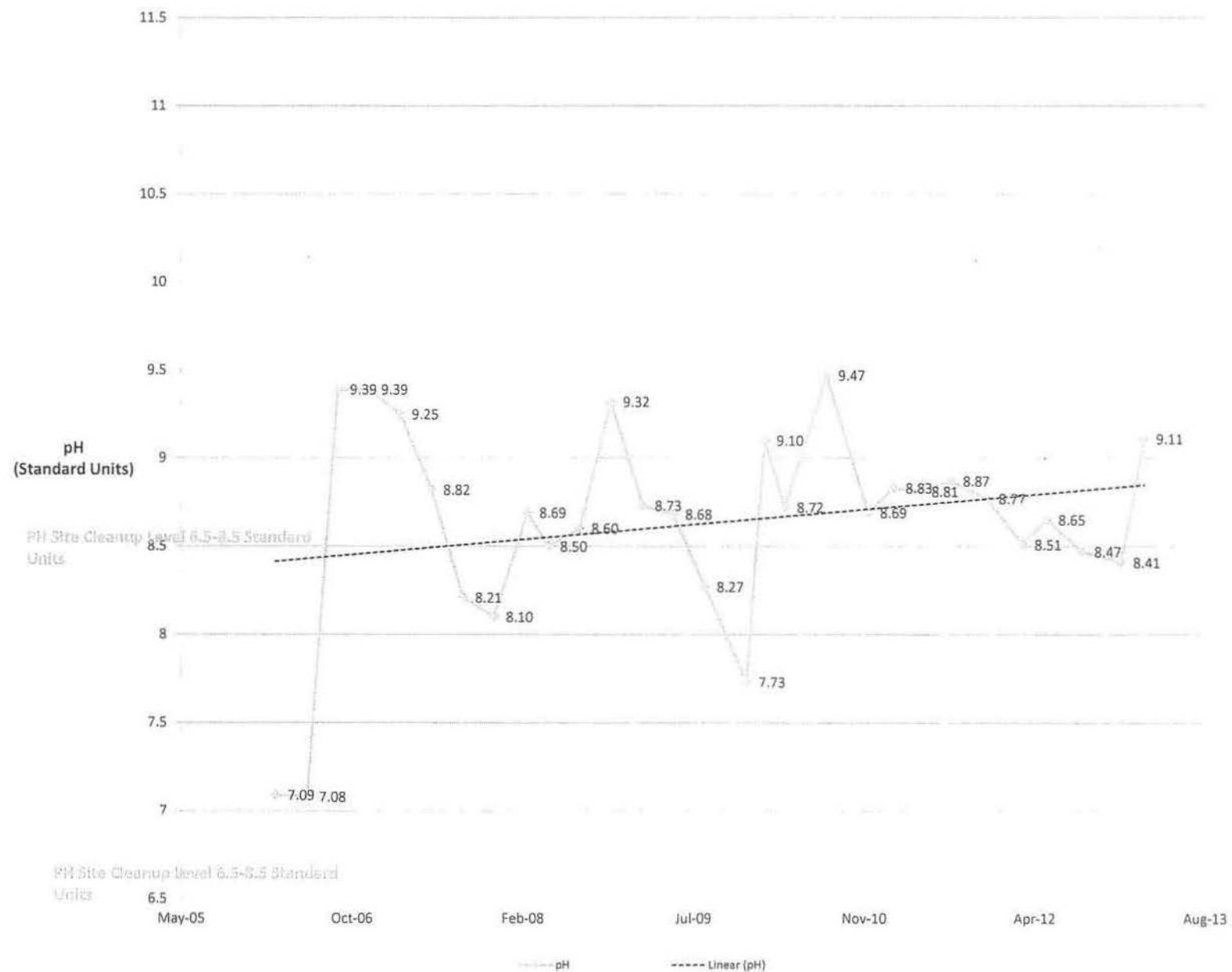
BA-03 pH (Upgradient of PRB Since 2006)



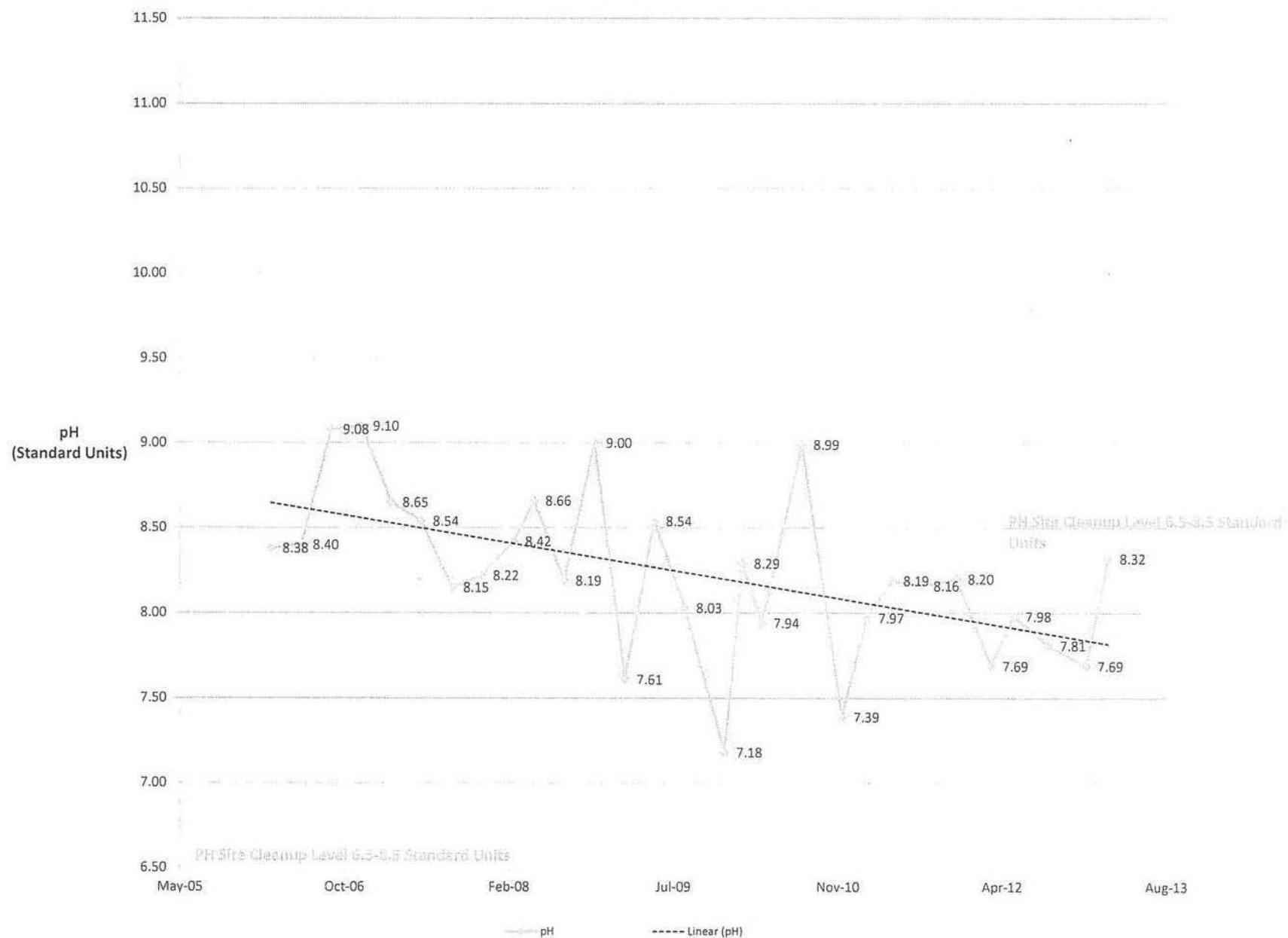
WATER WELLS

(SINCE 2006)

WW-04 pH (Water Wells Since 2006)

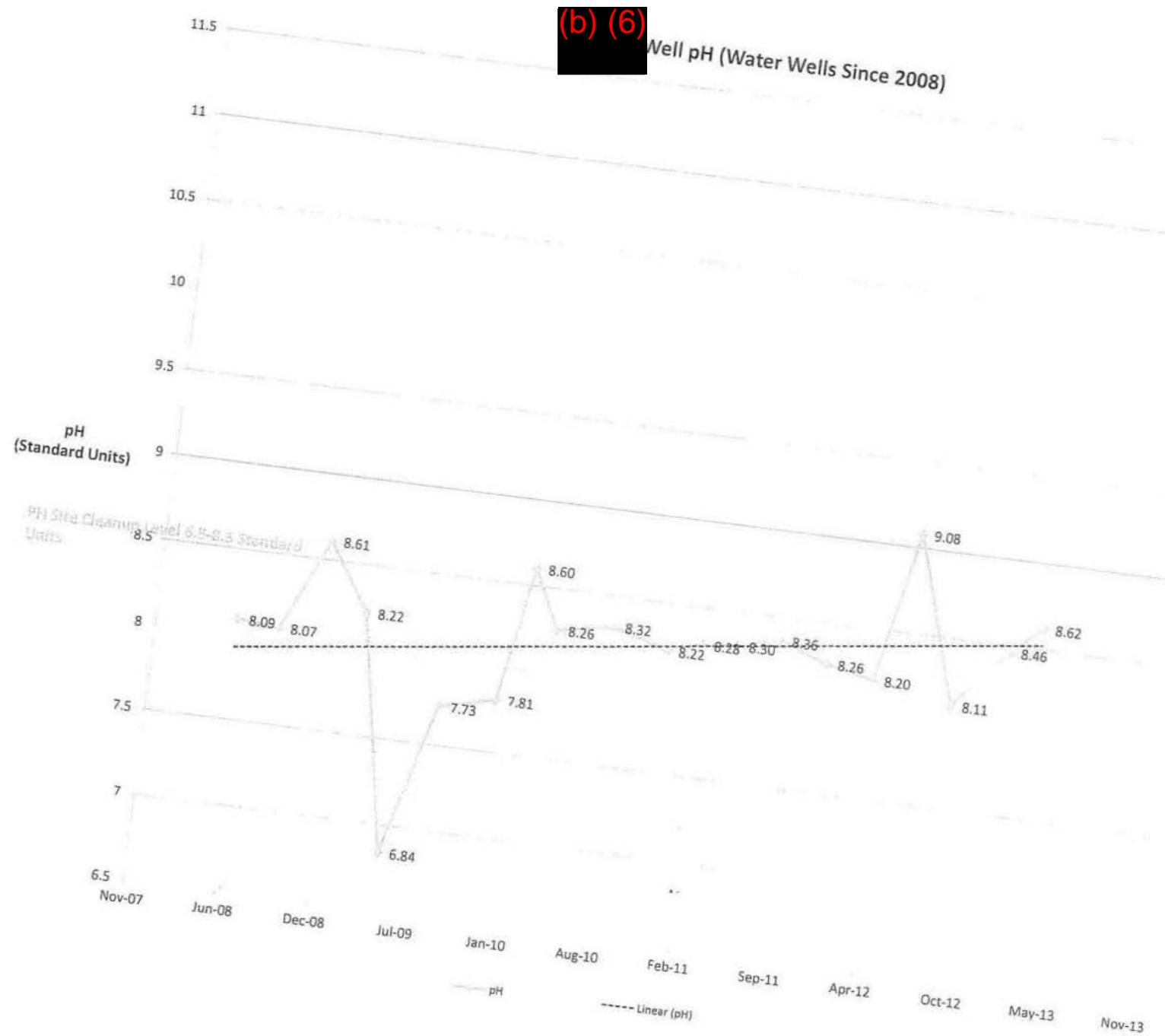


WW-09 pH (Water Wells Since 2006)



(b) (6)

[REDACTED] Well pH (Water Wells Since 2008)



ATTACHMENT D
DATA VALIDATION PACKAGE

INTRODUCTION

**Data Validation Report
DELATTE METALS PROJECT**

SDG: L0026284 April 2013

INTRODUCTION

Disclaimer

The opinions expressed and the qualifiers and values assigned by TerraBase Incorporated™ (TerraBase) are based on information provided to us in a hardcopy raw data package and/or an electronic deliverable.

TerraBase assumes this information accurately and completely represents the samples and information received by the laboratory, the analyses performed by the laboratory, and the raw data and results provided by the laboratory.

If TerraBase discovers that for any reason the information is inaccurate or incomplete, or non-representative of the site, TerraBase reserves the right to modify or withdraw any information contained in this report.

INTRODUCTION

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: L0026284

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207
April 2013

INTRODUCTION

Purpose of the Validation Report

Analytical data validation is a confirmatory procedure that evaluates client-generated laboratory data in accordance with definitive regulatory performance standards set forth by the USEPA.^{1,2} TerraBase Incorporated™ (TerraBase) provides client assistance with data validation to ensure that analytical data are complete, in compliance with laboratory protocols, in agreement with the project data quality objectives, and are technically valid and legally defensible.

Format of the Introduction Section

The introduction contains summary tables that permit the reader easy access to the validated detected results. The tables are identified as: 1) *Table E 1 Sample Identification Cross-Reference Table*, 2) *Table E 2 Summary of Validated Sample Detects Sorted by Client Sample and Fraction* and 3) *Table E 3 Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample*. A brief description of the contents of each table is presented below.

Executive Summaries:

- 1) *Table E 1 Sample Identification Cross-Reference Table:* This table is a cross-reference of client sample names and laboratory names. It also references any consultants sample names, if they are available.
- 2) *Table E 2 Summary of Validated Sample Detects Sorted by Client Sample and Fraction:* Identification of all post-validation detected analytes by client or site sample location, fraction and analyte. The order of the analytical fractions appearing in this report follows the typical order found in a laboratory data package. That is, volatiles appear first, followed by semivolatiles, pesticides, herbicides, metals and conventionals. The detected analytes of each fraction are also displayed according to their order of appearance in the data package. This table also shows the sample type, sample matrix, extraction level, dilution factor and the method quantitation limits (MQL).
- 3) *Table E 3 Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample:* Identification of all post-validation detected analytes by fraction, analyte and client site/sample location.

¹National Functional Guidelines For Organic Data Review, USEPA, October 1999

²National Functional Guidelines For Inorganic Data Review, USEPA, February 1994.

INTRODUCTION

Qualifier Definitions

- U - The analyte was analyzed for , but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
- NJ - The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NOTES:

1. The results for 31 total water samples were received by TerraBase, Inc. on April 18, 2013. Four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria.
2. The samples were collected on February 18th, 19th, 20th, and February 21, 2013.
3. The laboratory in Lafayette received the samples on February 22, 2003.
4. Samples were subcontracted to Accutest-Mid Atlantic laboratory in Dayton, New Jersey.
5. The data received from the laboratory reflected the resubmission work requested by SEMS, Inc. for samples DW-03, PW-04, DW-02, BA-05, BA-05A and MW-A. The reason for the resubmission was not given to TerraBase, Inc. Only data that was in the revised laboratory data package was used in validation since it included all the samples and their accompanying raw data.
6. All results were from SW-846 method 6020.
7. Samples BA-01 and DW01 had both total and dissolved metal analysis requested. All remaining samples only had total metal analysis requested.
8. Client samples DW-01, MW-3, BC-25, and BA-01A were the four samples that full data validation was requested on. This request was made on April 8, 2013.
9. Arsenic, cadmium, lead, nickel, thallium, zinc and manganese were analyzed by the laboratory as per the chain of custody.
10. The validator used all quality control samples available to provide the most complete and accurate data validation possible.

INTRODUCTION

11. Field duplicates were not identified so, it was impossible for the validator to use them in the validation process.
12. Samples BA-05 and BC-21R were requested on the COC for total metals MS/MSD analysis. An addition laboratory chosen MS/MSD was run on client sample MW-6. All three were used in the data validation process.

E1 - Sample Identification Cross-Reference Table
Site Samples Sorted by Fraction

Delatte Metals
L0026284

Lab: AGCLAF / Accutest Gulf Coast - Lafayette				SDG ID: L0026284		
Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	BA-01A	JB29805-19	Site Sample	Water	Low	02/20/2013 13:21
	DW-01	JB29805-28	Site Sample	Water	Low	02/20/2013 18:20
	DW-01DIS	JB29805-28F	Site Sample	Water	Low	02/20/2013 18:20
	BC-25	JB29805-4	Site Sample	Water	Low	02/18/2013 11:52
	MW-3	JB29805-5	Site Sample	Water	Low	02/18/2013 12:23

E2 - Summary of Validated Sample Detects

Sorted by Client Sample, Fraction, and Elution Order

Delatte Metals

L0026284

Lab: AGCLAF / Accutest Gulf Coast - Lafayette

SDG ID: L0026284

Client Sample	Fraction	Analyte	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
BA-01A									
Metals									
	Manganese		Site Sample	Water	Low	10	10	12.3	µg/L
	Arsenic		Site Sample	Water	Low	10	5	8.5	µg/L
BC-25									
Metals									
	Manganese		Site Sample	Water	Low	10	10	217	µg/L
DW-01									
Metals									
	Lead		Site Sample	Water	Low	2	1	15	µg/L
	Cadmium		Site Sample	Water	Low	2	1	45.8	µg/L
	Nickel		Site Sample	Water	Low	10	10	59.7	µg/L
	Arsenic		Site Sample	Water	Low	10	5	236	µg/L
	Zinc		Site Sample	Water	Low	10	20	356	µg/L
	Manganese		Site Sample	Water	Low	50	50	13,800	µg/L
DW-01DIS									
Metals									
	Lead		Site Sample	Water	Low	2	1	16.4	µg/L
	Cadmium		Site Sample	Water	Low	2	1	49.4	µg/L
	Nickel		Site Sample	Water	Low	10	10	64.2	µg/L
	Arsenic		Site Sample	Water	Low	10	5	207	µg/L
	Zinc		Site Sample	Water	Low	10	20	388	µg/L
	Manganese		Site Sample	Water	Low	50	50	15,900	µg/L
MW-3									
Metals									
	Lead		Site Sample	Water	Low	2	1	1.1	µg/L
	Manganese		Site Sample	Water	Low	10	10	419	µg/L

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rptGeneral_SDG_DetectsBySample

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

E3 - Summary of Validated Analyte Detects

Sorted by Fraction, Analyte and Client Sample

Delatte Metals

L0026284

Lab: AGCLAF / Accutest Gulf Coast - Lafayette

SDG ID: L0026284

Fraction	Analyte	Client Sample	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
Metals									
Arsenic									
	BA-01A		Site Sample	Water	Low	10	5	8.5	µg/L
	DW-01		Site Sample	Water	Low	10	5	236	µg/L
	DW-01DIS		Site Sample	Water	Low	10	5	207	µg/L
Cadmium									
	DW-01		Site Sample	Water	Low	2	1	45.8	µg/L
	DW-01DIS		Site Sample	Water	Low	2	1	49.4	µg/L
Lead									
	DW-01		Site Sample	Water	Low	2	1	15	µg/L
	DW-01DIS		Site Sample	Water	Low	2	1	16.4	µg/L
	MW-3		Site Sample	Water	Low	2	1	1.1	µg/L
Manganese									
	BA-01A		Site Sample	Water	Low	10	10	12.3	µg/L
	BC-25		Site Sample	Water	Low	10	10	217	µg/L
	DW-01		Site Sample	Water	Low	50	50	13,800	µg/L
	DW-01DIS		Site Sample	Water	Low	50	50	15,900	µg/L
	MW-3		Site Sample	Water	Low	10	10	419	µg/L
Nickel									
	DW-01		Site Sample	Water	Low	10	10	59.7	µg/L
	DW-01DIS		Site Sample	Water	Low	10	10	64.2	µg/L
Zinc									
	DW-01		Site Sample	Water	Low	10	20	356	µg/L
	DW-01DIS		Site Sample	Water	Low	10	20	388	µg/L

Section page: 1

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rptGeneral_SDG_DetectsByAnalyte

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

TerraBase®
TerraBase Inc.

METAL

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: L0026284

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207
April 2013

TerraBase Data Validation Reporting Method

The purpose of this section is to give the data user an understanding of the ideas and concepts associated with data validation in general and with the TerraBase, Inc.TM (TerraBase) method of reporting validated data.

Analyte Level Validation Issues

TerraBase has developed a method for reporting validated data which utilizes a presentation of laboratory data issues and validation issues. This technique is based on the concept that issues encountered in the validation of laboratory data affect individual analytes of a sample. For instance, determining that a detected analyte in a sample was the result of laboratory contamination will cause only that analyte to be qualified.

TerraBase Codes: Standardizing the Description of Analytical Defects

TerraBase has standardized the data validation process by developing a database of codes employed by our analysts to describe the various analytical defects that may occur with an analysis. Each code is associated with written text describing the problem and the qualification that may be applied. For instance, the code that would be applied to an analyte that was determined to be a result of laboratory contamination would be BC (Blank Contamination). A complete listing of the analyte qualification parameters and their respective codes are presented below in *Analyte Qualification Codes*.

Analyte Qualification Codes

- CO Comment
- HT Holding Time
- IC Initial Calibration
- CC Continuing Calibration
- BC Blank Contamination
- MS Matrix Spike Effects
- TC Target Compound Identification
- CQ Compound Quantitation
- TI Tentatively Identified Compound
- SD System Monitoring Compound
- IS Internal Standard
- TU GC/MS Tune Criteria

- AS Analytical Sequence

Metal Section Reporting Format

The Metal Section of this data validation report is divided into 1) a text-formatted report which describes the contents of the laboratory data package and 2) a number of tabular reports which allow the data user to readily obtain information about the results of the data validation. Below is a description of the type of information contained in these tabular reports.

- 1) *Narrative of the Sample Delivery Group (SDG):* This section provides general information that pertains to the data package, such as the date of receipt, the number and type of samples, the laboratory performing the analysis, the instrumentation utilized to perform the analysis, the method of analysis, and the number and type of quality control parameters reported by the laboratory. Additionally, any other pertinent issues dealing with the laboratory or the data package may be noted in this section.
- 2) **Table M1** *Summary of Metal Data Validation Issues:* This table represents a bulleted summary of all metal samples that were validated for analyte level defects and provides a quick view of any issues that were associated with this sample delivery group. A bullet represents the assignment of a comment and/or qualifier by the data validator for a specific sample. The nature of a qualification can be found in **Table M2** *Metal Analyte Qualification Summary*.
- 3) **Table M2** *Metal Analyte Qualification Summary:* This tabular report displays all of the analyte-level data validation issues checked (*Analyte Qualification Codes*). The table indicates the client sample name, the analyte that has been qualified, the qualification code, the lab result and its qualifier and units, the validated result and the validation qualifier and units. Explanations of the actions taken by the validator are explained in **Table M3** *Metal Analyte Qualification Comments*.
- 4) **Table M3** *Metal Analyte Qualification Comments:* This report contains an explanation of each problem and any qualification which was documented in **Table M2** *Metal Analyte Qualification Summary*.
- 5) **Table M4** *Validated Metal Results:* This report displays all the analytical and validated information in a one-sample per-page view. It includes the metal analyte list, analytical extraction level, dilution factor, method quantitation limits per analyte, the results for each analyte and the units of measure for each analyte.

Narrative of Sample Delivery Group (SDG): L0026284

The results for thirty-one site water samples were analyzed by Accutest Gulf Coast for metals were received by TerraBase, Inc. for full data validation. The laboratory utilized an ICP-MS according to SW-846 Method 6020A. These samples were analyzed for total metals. Two of the samples were also analyzed for dissolved metals. The following quality control parameters were reported in the data package:

QC : ICP: 6020A TOTAL METALS
As, Cd, Pb, Mn, Ni, Tl, Zn
• 3 method blank(s)
• 3 matrix spike(s)
• 3 matrix spike duplicate(s)
• 0 lab duplicate(s)
• 3 linear dilution sample(s)
• 0 post digestion spike(s)
• 0 post digestion spike duplicate(s)
• 3 laboratory control sample(s)
• 0 laboratory control sample dup(s)

NOTES:

1. The results for 31 total water samples were received by TerraBase, Inc. on April 18, 2013. Four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria.
2. The samples were collected on February 18th, 19th, 20th, and February 21, 2013.
3. The laboratory in Lafayette received the samples on February 22, 2003.
4. Samples were subcontracted to Accutest-Mid Atlantic laboratory in Dayton, New Jersey.
5. The data received from the laboratory reflected the resubmission work requested by SEMS, Inc. for samples DW-03, PW-04, DW-02, BA-05, BA-05A and MW-A. The reason for the resubmission was not given to TerraBase, Inc. Only data that was in the revised laboratory data package was used in validation since it included all the samples and their accompanying raw data.
6. All results were from SW-846 method 6020.
7. Samples BA-01 and DW01 had both total and dissolved metal analysis requested. All remaining samples only had total metal analysis requested.
8. Client samples DW-01, MW-3, BC-25, and BA-01A were the four samples that full data validation was requested on. This request was made on April 8, 2013.
9. Arsenic, cadmium, lead, nickel, thallium, zinc and manganese were analyzed by the laboratory as per the chain of custody.
10. The validator used all quality control samples available to provide the most complete and accurate data validation possible.

METAL

11. Field duplicates were not identified so, it was impossible for the validator to use them in the validation process.
12. Samples BA-05 and BC-21R were requested on the COC for total metals MS/MSD analysis. An addition laboratory chosen MS/MSD was run on client sample MW-6. All three were used in the data validation process.

Lab: AGCLAF / Accutest Gulf Coast - Lafayette

SDG ID: L0026284

Client Sample	Analyte Qualification							
	AS	CO	HT	IC	CC	BC	MS	CQ
BA-01A								
BC-25								
DW-01								
DW-01DIS								
MW-3								

All samples were validated. A bullet (◦) denotes sample qualification.

Analyte Qualification Codes:

AS - Analytical sequence

CC - Continuing calibration

Section page: 1

CO - Comment

BC - Blank contamination

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HT - Holding time

MS - Matrix spike effects

rplDV_ProblemSummary_M

IC - Initial calibration

CQ - Compound/parameter quantitation

M2 - Metal Analyte Qualification Summary

Prepared by TerraBase, Inc.

Delatte Metals

L0026284

Lab: AGCLAF / Accutest Gulf Coast - Lafayette

SDG ID: L0026284

Client Sample	Analyte Name	AS	CO	HT	IC	CC	BC	MS	CQ	Lab Result	Units	Validated Result	Units
---------------	--------------	----	----	----	----	----	----	----	----	------------	-------	------------------	-------

No metal samples received analyte qualifiers in this sample delivery group.

Analyte Qualification Codes:

- AS - Analytical sequence
CO - Comment
HT - Holding time
IC - Initial calibration

- CC - Continuing calibration
BC - Blank contamination
MS - Matrix spike effects
CQ - Compound/parameter quantitation

Analyte Qualifiers:

- U - Non-detected
J - Estimated
R - Unusable

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Section page: 1

04/19/2013 13:20

rpDV_Qualification
Summary_M_B

Lab: AGCLAF / Accutest Gulf Coast - Lafayette

SDG ID: L0026284

No metal samples received analyte qualifiers in this sample delivery group.

Section page: 1
04/19/2013 13:21
 rptDV_Comments_M_B

Qualification Categories:

CO - Comment	MS - Matrix spike effects
HT - Holding time	TC - TCL compound ID
IC - Initial calibration	CQ - Compound/parameter quantitation
CC - Continuing calibration	TI - Tentatively identified compound
BC - Blank contamination	SD - Surrogate deficiencies
	IS - Internal standard

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M4 - Validated Metal Results

Delatte Metals

L0026284

Client Sample ID: BA-01A
 Sample Type: Site Sample (total)
 Lab Sample ID: JB29805-19

Matrix: Water
 % Solids: NA
 Sampling Date/Time: 02/20/2013 13:21

Lab ID: AGCLAF
 SDG ID: L0026284
 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	12.3	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	8.5	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 1

04/19/2013 13:40

rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

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M4 - Validated Metal Results

Delatte Metals
L0026284

Client Sample ID: DW-01	Matrix: Water	Lab ID: AGCLAF				
Sample Type: Site Sample (total)	% Solids: NA	SDG ID: L0026284				
Lab Sample ID: JB29805-28	Sampling Date/Time: 02/20/2013 18:20	SDG Page: 0				
<hr/>						
CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units
7439-92-1	Lead	6020A	2	1	15	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	45.8	µg/L
7440-02-0	Nickel	6020A	10	10	59.7	µg/L
7440-38-2	Arsenic	6020A	10	5	236	µg/L
7440-66-6	Zinc	6020A	10	20	356	µg/L
7439-96-5	Manganese	6020A	50	50	13,800	µg/L

Section page: 2	U - Non-detected	B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL	
04/19/2013 13:40	J - Estimated		
rplDV_Form4_M	R - Unusable		TerraBase® TerraBase Inc

M4 - Validated Metal Results

Delatte Metals

L0026284

Client Sample ID: DW-01DIS
 Sample Type: Site Sample
 Lab Sample ID: JB29805-28F

Matrix: Water
 % Solids: NA
 Sampling Date/Time: 02/20/2013 18:20

Lab ID: AGCLAF
 SDG ID: L0026284
 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units
7439-92-1	Lead	6020A	2	1	16.4	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	49.4	µg/L
7440-02-0	Nickel	6020A	10	10	64.2	µg/L
7440-38-2	Arsenic	6020A	10	5	207	µg/L
7440-66-6	Zinc	6020A	10	20	388	µg/L
7439-96-5	Manganese	6020A	50	50	15,900	µg/L

Section page: 3

04/19/2013 13:40

rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

TeraBase®
TeraBase Inc

M4 - Validated Metal Results

Delatte Metals
L0026284

Client Sample ID: BC-25 Matrix: Water Lab ID: AGCLAF
 Sample Type: Site Sample (total) % Solids: NA SDG ID: L0026284
 Lab Sample ID: JB29805-4 Sampling Date/Time: 02/18/2013 11:52 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	217	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 4

04/19/2013 13:40

rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

TerraBase®
TerraBase Inc

M4 - Validated Metal Results

Delatte Metals

L0026284

Client Sample ID: MW-3
 Sample Type: Site Sample (total)
 Lab Sample ID: JB29805-5

Matrix: Water
 % Solids: NA
 Sampling Date/Time: 02/18/2013 12:23

Lab ID: AGCLAF
 SDG ID: L0026284
 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units
7439-92-1	Lead	6020A	2	1	11	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	419	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 5

04/19/2013 13:40

rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

TerraBase®
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All Lab Level Results

DELATTE METALS PROJECT

ALL LAB LEVEL RESULTS

SDG: L0026284

Prepared for:

**SEMS, Inc.
Baton Rouge, LA**

TerraBase Project Number: 207
April 2013

E1 - Sample Identification Cross-Reference Table
Site Samples Sorted by Fraction

Delatte Metals
0026284A

Lab: AGCLAF / Accutest Gulf Coast - Lafayette					SDG ID: 0026284A	
Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
BC-07		JB29805-1	Site Sample	Water	Low	02/18/2013 9:29
NORTH WELL		JB29805-10	Site Sample	Water	Low	02/19/2013 10:08
BC-21R		JB29805-11	Site Sample	Water	Low	02/19/2013 10:39
BA-09		JB29805-12	Site Sample	Water	Low	02/19/2013 11:38
BA-09A		JB29805-13	Site Sample	Water	Low	02/19/2013 12:26
WW-09		JB29805-14	Site Sample	Water	Low	02/19/2013 13:20
MW-04		JB29805-15	Site Sample	Water	Low	02/19/2013 14:31
BC-03		JB29805-16	Site Sample	Water	Low	02/20/2013 10:11
WW-04		JB29805-17	Site Sample	Water	Low	02/20/2013 10:46
(b) (6) WELL		JB29805-18	Site Sample	Water	Low	02/20/2013 10:55
BA-01A		JB29805-19	Site Sample	Water	Low	02/20/2013 13:21
DW-04		JB29805-2	Site Sample	Water	Low	02/18/2013 10:31
BA-01		JB29805-20	Site Sample	Water	Low	02/20/2013 14:02
BA-01DIS		JB29805-20F	Site Sample	Water	Low	02/20/2013 14:02
DW-03		JB29805-22	Site Sample	Water	Low	02/20/2013 14:40
PW-04		JB29805-23	Site Sample	Water	Low	02/20/2013 15:03
DW-02		JB29805-24	Site Sample	Water	Low	02/20/2013 15:32
BA-05		JB29805-25	Site Sample	Water	Low	02/20/2013 16:24
BA-05A		JB29805-26	Site Sample	Water	Low	02/20/2013 17:08
MW-A		JB29805-27	Site Sample	Water	Low	02/20/2013 17:40
DW-01		JB29805-28	Site Sample	Water	Low	02/20/2013 18:20
DW-01DIS		JB29805-28F	Site Sample	Water	Low	02/20/2013 18:20
BC-19		JB29805-3	Site Sample	Water	Low	02/18/2013 10:54
MW-01		JB29805-30	Site Sample	Water	Low	02/21/2013 8:18
BA-03A		JB29805-31	Site Sample	Water	Low	02/21/2013 8:53
BA-03		JB29805-32	Site Sample	Water	Low	02/21/2013 9:11
MW-02		JB29805-33	Site Sample	Water	Low	02/21/2013 9:28
DUPLICATE #1		JB29805-34	Field Duplicate	Water	Low	02/19/2013 0:00
DUPLICATE #2		JB29805-35	Field Duplicate	Water	Low	02/19/2013 0:00
DUPLICATE #3		JB29805-36	Field Duplicate	Water	Low	02/20/2013 0:00
DUPLICATE #4		JB29805-37	Field Duplicate	Water	Low	02/20/2013 0:00
BC-25		JB29805-4	Site Sample	Water	Low	02/18/2013 11:52
MW-3		JB29805-5	Site Sample	Water	Low	02/18/2013 12:23
MW-6		JB29805-6	Site Sample	Water	Low	02/18/2013 13:25
SOUTH WELL		JB29805-7	Site Sample	Water	Low	02/18/2013 14:16
BB-01		JB29805-8	Site Sample	Water	Low	02/19/2013 9:04
BC-17		JB29805-9	Site Sample	Water	Low	02/19/2013 9:35

Metal Results

Delatte Metals

0026284A

Client Sample ID: BC-07
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-1

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/18/2013 9:29

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	11.8	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-28-0	Thallium	6020A	10	5	5 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 1

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rptDV_Form4_M

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: **NORTH WELL**
Sample Type: **Site Sample (total)**
Lab Sample ID: **JB29805-10**

Matrix: **Water**
% Solids: **NA**
Sampling Date/Time: **02/19/2013 10:08**

Lab ID: **AGCLAF**
SDG ID: **0026284A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 2

04/19/2013 13:44

rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BC-21R
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-11

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/19/2013 10:39

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	2	2	57.5	µg/L
7440-02-0	Nickel	6020A	2	2	2 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-38-2	Arsenic	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7440-66-6	Zinc	6020A	2	4	4	µg/L

Section page: 3

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BA-09
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-12

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/19/2013 11:38

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1.3	µg/L
7440-28-0	Thallium	6020A	2	1	1.0	µg/L
7440-43-9	Cadmium	6020A	2	1	1.0	µg/L
7440-02-0	Nickel	6020A	10	10	157	µg/L
7440-38-2	Arsenic	6020A	10	5	34.2	µg/L
7440-66-6	Zinc	6020A	10	20	231	µg/L
7439-96-5	Manganese	6020A	50	50	3,580	µg/L

Section page: 4

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rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BA-09A
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-13

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/19/2013 12:26

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	30.9	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 5

04/19/2013 13:44

rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: WW-09 Matrix: Water Lab ID: AGCLAF
Sample Type: Site Sample (total) % Solids: NA SDG ID: 0026284A
Lab Sample ID: JB29805-14 Sampling Date/Time: 02/19/2013 13:20 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	17.9	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 6

04/19/2013 13:44

rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: **MW-04**Sample Type: **Site Sample (total)**Lab Sample ID: **JB29805-15**Matrix: **Water**% Solids: **NA**Lab ID: **AGCLAF**SDG ID: **0026284A**Sampling Date/Time: **02/19/2013 14:31**SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	3.6	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	62.8	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 7

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BC-03
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-16

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 10:11

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 8

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: WW-04
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-17

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 10:46

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: (b) (6) WELL
 Sample Type: Site Sample (total)
 Lab Sample ID: JB29805-18

Matrix: Water
 % Solids: NA
 Sampling Date/Time: 02/20/2013 10:55

Lab ID: AGCLAF
 SDG ID: 0026284A
 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	12	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	24.3	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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04/19/2013 13:44

rpDV_Form4_M

U - Non-detected
 J - Estimated
 R - Unusable
 RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BA-01A
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-19

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 13:21

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	12.3	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	8.5	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DW-04
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-2

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/18/2013 10:31

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: BA-01
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-20

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 14:02

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7440-02-0	Nickel	6020A	10	10	39.7	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	92.3	µg/L
7439-96-5	Manganese	6020A	50	50	1,320	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BA-01DIS
Sample Type: Site Sample
Lab Sample ID: JB29805-20F

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 14:02

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	11	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7440-02-0	Nickel	6020A	10	10	39.1	µg/L
7440-38-2	Arsenic	6020A	10	5	6.9	µg/L
7440-66-6	Zinc	6020A	10	20	52.5	µg/L
7439-96-5	Manganese	6020A	50	50	1,400	µg/L

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04/19/2013 13:44

rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: DW-03
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-22

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 14:40

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	32.1	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	2.9	µg/L
7440-02-0	Nickel	6020A	10	10	171	µg/L
7440-38-2	Arsenic	6020A	10	5	35.6	µg/L
7440-66-6	Zinc	6020A	10	20	257	µg/L
7439-96-5	Manganese	6020A	50	50	4,660	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: PW-04
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-23

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 15:03

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1.3	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	2.1	µg/L
7440-02-0	Nickel	6020A	10	10	32.1	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	82.5	µg/L
7439-96-5	Manganese	6020A	50	50	1,640	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DW-02
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-24

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 15:32

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	53	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	43.3	µg/L
7440-02-0	Nickel	6020A	10	10	668	µg/L
7440-38-2	Arsenic	6020A	10	5	75.8	µg/L
7439-96-5	Manganese	6020A	50	50	16,200	µg/L
7440-66-6	Zinc	6020A	50	100	2,130	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BA-05
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-25

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 16:24

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020A	50	50	17,700	µg/L
7440-02-0	Nickel	6020A	10	10	78.5	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1.3	µg/L
7440-38-2	Arsenic	6020A	2	1	2.5	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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TerraBase Inc

Metal ResultsDelatte Metals
0026284A

Client Sample ID: BA-05A
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-26

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 17:08

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	14.4	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: MW-A
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-27

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 17:40

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: DW-01
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-28

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 18:20

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	15	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	45.8	µg/L
7440-02-0	Nickel	6020A	10	10	59.7	µg/L
7440-38-2	Arsenic	6020A	10	5	236	µg/L
7440-66-6	Zinc	6020A	10	20	356	µg/L
7439-96-5	Manganese	6020A	50	50	13,800	µg/L

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rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DW-01DIS
Sample Type: Site Sample
Lab Sample ID: JB29805-28F

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 18:20

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	16.4	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	49.4	µg/L
7440-02-0	Nickel	6020A	10	10	64.2	µg/L
7440-38-2	Arsenic	6020A	10	5	207	µg/L
7440-66-6	Zinc	6020A	10	20	388	µg/L
7439-96-5	Manganese	6020A	50	50	15,900	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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TerraBase Inc

Metal Results

Delatte Metals

0026284A

Client Sample ID: BC-19
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-3

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/18/2013 10:54

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: MW-01
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-30

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/21/2013 8:18

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	9.5	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	6.9	µg/L
7440-02-0	Nickel	6020A	10	10	263	µg/L
7440-38-2	Arsenic	6020A	10	5	70.8	µg/L
7440-66-6	Zinc	6020A	10	20	309	µg/L
7439-96-5	Manganese	6020A	50	50	7,270	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BA-03A
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-31

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/21/2013 8:53

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	2	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	39.4	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0026284A

Client Sample ID: BA-03
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-32

Matrix: Water
% Solids: NA

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	76	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	69.9	µg/L
7440-02-0	Nickel	6020A	10	10	53.5	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	242	µg/L
7439-96-5	Manganese	6020A	50	50	1,800	µg/L

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U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: MW-02
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-33

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/21/2013 9:28

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	25	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	457	µg/L
7439-96-5	Manganese	6020A	10	10	621	µg/L
7440-02-0	Nickel	6020A	10	10	525	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	197	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DUPLICATE #1
 Sample Type: Field Duplicate (total)
 Lab Sample ID: JB29805-34

Matrix: Water
 % Solids: NA
 Sampling Date/Time: 02/19/2013 0:00

Lab ID: AGCLAF
 SDG ID: 0026284A
 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	6.6	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DUPLICATE #2
Sample Type: Field Duplicate (total)
Lab Sample ID: JB29805-35

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/19/2013 0:00

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020A	10	10	24.2	µg/L
7440-02-0	Nickel	6020A	10	10	10.0	µg/L
7440-38-2	Arsenic	6020A	10	5	5.0	µg/L
7440-66-6	Zinc	6020A	10	20	20.0	µg/L
7440-28-0	Thallium	6020A	10	5	5.0	µg/L
7439-92-1	Lead	6020A	2	1	1.0	µg/L
7440-43-9	Cadmium	6020A	2	1	1.0	µg/L

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rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DUPLICATE #3
Sample Type: Field Duplicate (total)
Lab Sample ID: JB29805-36

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/20/2013 0:00

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L

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rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: DUPLICATE #4
 Sample Type: Field Duplicate (total)
 Lab Sample ID: JB29805-37

Matrix: Water
 % Solids: NA
 Sampling Date/Time: 02/20/2013 0:00

Lab ID: AGCLAF
 SDG ID: 0026284A
 SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-96-5	Manganese	6020A	10	10	47.4	µg/L
7440-02-0	Nickel	6020A	10	10	240	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	135	µg/L
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BC-25

Sample Type: Site Sample (total)

Lab Sample ID: JB29805-4

Matrix: Water

% Solids: NA

Sampling Date/Time: 02/18/2013 11:52

Lab ID: AGCLAF

SDG ID: 0026284A

SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	217	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal ResultsDelatte Metals
0026284A

Client Sample ID: MW-3
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-5

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/18/2013 12:23

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1.1	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	419	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: MW-6
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-6

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/18/2013 13:25

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	30.7	µg/L
7440-02-0	Nickel	6020A	10	10	22.7	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	77.7	µg/L
7439-96-5	Manganese	6020A	50	50	2,460	µg/L

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rptDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: **SOUTH WELL**
Sample Type: **Site Sample (total)**
Lab Sample ID: **JB29805-7**

Matrix: **Water**
% Solids: **NA**
Sampling Date/Time: **02/18/2013 14:16**

Lab ID: **AGCLAF**
SDG ID: **0026284A**
SDG Page: **0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	1 U	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-43-9	Cadmium	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

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rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals

0026284A

Client Sample ID: BB-01
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-8

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/19/2013 9:04

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	5.3	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	10 U	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 36

04/19/2013 13:44

rpIDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

TerraBase®
TerraBase Inc

Metal ResultsDelatte Metals
0026284A

Client Sample ID: BC-17
Sample Type: Site Sample (total)
Lab Sample ID: JB29805-9

Matrix: Water
% Solids: NA
Sampling Date/Time: 02/19/2013 9:35

Lab ID: AGCLAF
SDG ID: 0026284A
SDG Page: 0

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020A	2	1	15.5	µg/L
7440-28-0	Thallium	6020A	2	1	1 U	µg/L
7440-43-9	Cadmium	6020A	2	1	1 U	µg/L
7439-96-5	Manganese	6020A	10	10	60.5	µg/L
7440-02-0	Nickel	6020A	10	10	10 U	µg/L
7440-38-2	Arsenic	6020A	10	5	5 U	µg/L
7440-66-6	Zinc	6020A	10	20	20 U	µg/L

Section page: 37

04/19/2013 13:44

rpDV_Form4_M

U - Non-detected

J - Estimated

R - Unusable

RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

TerraBase®
TerraBase Inc

DELATTE METALS PROJECT

MISCELLANEOUS DOCUMENTS

SDG: L0026284

Prepared for:
SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207
April 2013



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

L0026284

<u>Report To:</u>	SEMS, INC. NICK RODEHORST 3801 NORTH CAUSEWAY BLVD SUITE 209 METAIRIE LA 70002- ph: (504) 342-2340	<u>Project Name:</u> 207-0016 <u>Site:</u> DELATTE METALS <u>Site Address:</u> PONCHATOULA LA <u>PO Number:</u> <u>State:</u> Louisiana <u>State Cert. No.:</u> 02048 <u>Date Reported:</u> 4/2/2013
<u>Fax To:</u>	fax:	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BC-07	L0026284-01	Water	02/18/2013 9:29	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DW-04	L0026284-02	Water	02/18/2013 10:31	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-19	L0026284-03	Water	02/18/2013 10:54	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-25	L0026284-04	Water	02/18/2013 11:52	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-3	L0026284-05	Water	02/18/2013 12:23	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-6	L0026284-06	Water	02/18/2013 13:25	2/22/2013 2:30:00 PM		<input type="checkbox"/>
SOUTH WELL	L0026284-07	Water	02/18/2013 14:16	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BB-01	L0026284-08	Water	02/19/2013 9:04	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-17	L0026284-09	Water	02/19/2013 9:35	2/22/2013 2:30:00 PM		<input type="checkbox"/>
NORTH WELL	L0026284-10	Water	02/19/2013 10:08	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-21R	L0026284-11	Water	02/19/2013 10:39	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-21RMS	L0026284-11MS	Water	02/19/2013 10:39	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-21RMSD	L0026284-11MSD	Water	02/19/2013 10:39	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-09	L0026284-12	Water	02/19/2013 11:38	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-09A	L0026284-13	Water	02/19/2013 12:26	2/22/2013 2:30:00 PM		<input type="checkbox"/>
WW-09	L0026284-14	Water	02/19/2013 13:20	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-04	L0026284-15	Water	02/19/2013 14:31	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BC-03	L0026284-16	Water	02/20/2013 10:11	2/22/2013 2:30:00 PM		<input type="checkbox"/>
WW-04	L0026284-17	Water	02/20/2013 10:46	2/22/2013 2:30:00 PM		<input type="checkbox"/>
(b) (6) WELL	L0026284-18	Water	02/20/2013 10:55	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-01A	L0026284-19	Water	02/20/2013 13:21	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-01	L0026284-20	Water	02/20/2013 14:02	2/22/2013 2:30:00 PM		<input type="checkbox"/>

4/2/2013

Amy K. Jackson
 Project Manager

Date

Ron Benjamin
 Laboratory Director

Rebecca Haryett
 Quality Assurance Officer



ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

L0026284

<u>Report To:</u>	SEMS, INC. NICK RODEHORST 3801 NORTH CAUSEWAY BLVD SUITE 209 METAIRIE LA 70002- ph: (504) 342-2340	<u>Project Name:</u>	207-0016
	fax:	<u>Site:</u>	DELATTE METALS
		<u>Site Address:</u>	PONCHATOULA LA
		<u>PO Number:</u>	
		<u>State:</u>	Louisiana
		<u>State Cert. No.:</u>	02048
<u>Fax To:</u>		<u>Date Reported:</u>	4/2/2013

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DW-03	L0026284-21	Water	02/20/2013 14:40	2/22/2013 2:30:00 PM		<input type="checkbox"/>
PW-04	L0026284-22	Water	02/20/2013 15:03	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DW-02	L0026284-23	Water	02/20/2013 15:32	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05	L0026284-24	Water	02/20/2013 16:24	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05MS	L0026284-24MS	Water	02/20/2013 16:24	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05MSD	L0026284-24MSD	Water	02/20/2013 16:24	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-05A	L0026284-25	Water	02/20/2013 17:08	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-A	L0026284-26	Water	02/20/2013 17:40	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DW-01	L0026284-27	Water	02/20/2013 18:20	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-01	L0026284-28	Water	02/21/2013 8:18	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-03A	L0026284-29	Water	02/21/2013 8:53	2/22/2013 2:30:00 PM		<input type="checkbox"/>
BA-03	L0026284-30	Water	02/21/2013 9:11	2/22/2013 2:30:00 PM		<input type="checkbox"/>
MW-02	L0026284-31	Water	02/21/2013 9:28	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #1	L0026284-32	Water	02/19/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #2	L0026284-33	Water	02/19/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #3	L0026284-34	Water	02/20/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>
DUPLICATE #4	L0026284-35	Water	02/20/2013 0:00	2/22/2013 2:30:00 PM		<input type="checkbox"/>

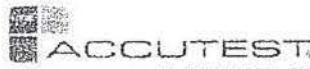
4/2/2013

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Rebecca Haryett
Quality Assurance Officer



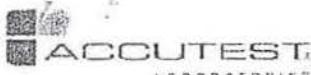
CHAIN OF CUSTODY

Accutest Gulf Coast/SPL Environmental
500 Ambassador Caffery Pkwy. Scott, LA 70583
TEL: 337-237-4775 FAX: 337-237-7838
www.accutest.com/www.spl-inc.com

PAGE 1 OF 4

5

Client / Reporting Information		Project Information		FED-EX Tracking #		Batch Order Control #	
				Accutest Quote #		Accutest Job #	
Company Name SEMS-Metairie		Project Name Delatte Metals Superfund Site				<i>10026284</i>	
Street Address 3801 N. Causeway Blvd. Suite 209		Street Ponchatoula		Billing Information (if different from Report to) Company Name			
City Metairie	State LA	City Ponchatoula	State LA				
Project Contact Nick Rodehorst Phone # 504-451-8083		Project # 207-0016		Street Address			
Phone # nrodehorst@semsinc.net		Client Purchase Order # 207-0016		City CH	State LA	Zip	
Sampler(s) Name(s) Meghee Shaw Nick Rodehorst		Project Manager		Attention:			
Accutest Sample #		Collection		Number of preserved Bottles		Total Metals	
Field ID / Point of Collection		Date 2-18-13	Time 929	Sampled By NR	Matrix WW	1	X
BC - 07							X
DW - 04			1031			1	X
BC - 19			1054			1	X
BC - 25			1152			1	X
MW - 3			1223			1	X
MW - 4			1325			1	X
SOUTH WALL		✓	1416	✓		1	X
BB - 01		2-19-13	904	MS/NR		1	X
BC - 17			935			1	X
NORTH WALL			1008			1	X
BC - 21P			1039			1	X
BA - 09		✓	1138	✓		1	X
Turnaround Time (Business days)				Data Deliverable Information		Comments / Special Instructions	
<input checked="" type="checkbox"/> Standard (6 day TAT) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM) / Date: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> Emergency & Rush T/A data available via LabLink		<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C"		<input type="checkbox"/> TRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____	
						*Total Metals: As Cd Pb Mn Ni Th Zn **Dissolved Metals (Field Filtered): As Cd Pb Mn Ni Th Zn	
						Received at Baton Rouge Service Center	
						PHCZ (3w)	
Sample Custody must be documented below each time samples change possession, including courier delivery.							
Relinquished by Sampler 1 Meghee Shaw	Date/Time: 2/21/13 1455	Received By 1	Relinquished By 2	Date/Time: 2/22	Received By 2	Service Center	
Relinquished by Sampler 3 Renee Sam	Date/Time: 3/07/14 33	Received By 3	Relinquished By 4	Date/Time: 3/07	Received By 4		
Relinquished by: 5	Date/Time:	Received By 5	Custody Seal # NOCS	Preserved where applicable Not Preserved	Color/Temp. 47K935		

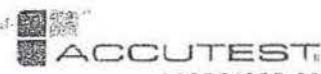


CHAIN OF CUSTODY

Accutest Gulf Coast/SPL Environmental
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PAGE 2 OF 4

Client / Reporting Information		Project Information										FED-EX Tracking #		Bulke Order Control #		Matrix Codes															
Company Name SEMS-Metairie Street Address 3801 N. Causeway Blvd. Suite 209		Project Name: Delatte Metals Superfund Site										Accutest Quota #		Assuted Job #																	
City Metairie	State LA	Zip 70002	City Ponchatoula	State LA	Billing Information (If different from Report to)																										
Project Contact Nick Roehorst Phone # 504-451-8083		E-mail nroehorst@semsinc.net		Project # 207-0016		Company Name Client Purchase Order #																									
Samplor(er) Name(s) <i>Margie Shaw & Nick Roehorst</i>		Phone #		Project Manager		City State Zip Attention:																									
Collection												Total Metals*		Dissolved Metals**																	
Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Notes	# of bottles	HCl	NaOH	Zn(400)	HNO3	H2SO4	None	Dilution	MEOH	TSP	HANSON	Frigidite	OTHER	Total Metals*	Dissolved Metals**											
	BA-09A	2/19/13	1226	NR/MS	N	1	X												X												
	WW-09		1320			1		X											X												
	MW-04		1431			1		X											X												
	BL-03	02-20-13	1011			1		X											X												
	WW-04		1046			1		X											X												
(b) (6)	well		1055			1		X											X												
	BA-01A		1321			1		X											X												
	BA-01		1402			2		X											X X		2										
	DW-03		1440			1		X											X												
	PW-04		1503			1		X											X												
	DW-02		1532			1		X											X												
	BA-05		1624	↓	↓	1		X											X												
Turnaround Time (Business days):												Data Deliverable Information										Comments / Special Instructions									
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 6 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY												Approved By (Accutest P.M.): Date: <hr/> <hr/> <hr/> <hr/> <hr/>										<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C"				<input type="checkbox"/> TRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____		*Total Metals: As, Cd, Pb, Mn, Ni, Th, Zn **Dissolved Metals (Field Filtered): As, Cd, Pb, Mn, Ni, Th, Zn			
Emergency & Rush TAT date available VIA LabLink												Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results - QC & Successo Summary										Received at Patron Route Service Center									
Sample Custody must be documented below each time samples change possession, including courier delivery																															
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:																							
<i>Margie Shaw</i>	2/21/13 1455	1	<i>2</i>	2/22		<i>2</i>	2/22																								
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:																							
3	<i>Renee Sam</i>	2/22 1430	<i>3</i>	<i>Renee Sam</i>		<i>4</i>	<i>2</i>	<i>Renee Sam</i>																							
Relinquished by	Date/Time:	Received By:	Custody Seal #	<input type="checkbox"/> Mac	Preserved where applicable										On Ice	Cooler Temp.															
5		5		<input type="checkbox"/> Not even											<input type="checkbox"/>	<input type="checkbox"/>															



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PAGE 3 OF 4

Client / Reporting Information		Project Information		FED-EX Tracking #		Bustle Order Control #	
				Accutest Case #		Accutest Job #	
Company Name: SEMS-Metaine Street Address: 3801 N. Causeway Blvd, Suite 209		Project Name: Delatte Metals Superfund Site					
City: LA	State: 70002	City: Ponchatoula	State: LA	Billing information (if different from Report to) Company Name:			
Project Contact Nick Rodehorst nrodehorst@semsinc.net		Project # 207-0016		Street Address:			
Phone #: 504-451-8083		Client Purchase Order # 207-0016		City:	State:	Zip:	
Sampler(s) Name(s): NICK RODEHORST E. Maghera Shaw		Project Manager:		Attention:			
Field ID / Point of Collection		Collection		Dissolved Metals			
Date: 2/20/13	Time: 1708	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/21/13	Time: 1740	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/21/13	Time: 1820	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/21/13	Time: 818	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/21/13	Time: 853	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/21/13	Time: 911	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/21/13	Time: 928	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/19/13	Time: —	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/19/13	Time: —	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/19/13	Time: —	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Date: 2/19/13	Time: 1039	Sampled By: NR/MS	Matrix: W	Total Metals:	As	Cd	Pb
				X	X	X	X
Turnaround Time (Business days)				Data Deliverable Information			
<input checked="" type="checkbox"/> Standard (5 day TAT) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY				Approved By (Accutest PM): / Date: <hr/> Commercial "A" [Level 1] <input type="checkbox"/> Commercial "B" [Level 2] <input checked="" type="checkbox"/> FULT1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> TRP <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____			
				*Total Metals: As Cd Pb Mn Ni Th Zn **Dissolved Metals (Field Filtered): As Cd Pb Mn Ni Th Zn Received at Baton Rouge Service Center			
Sample Custody must be documented below each time samples change possession, including courier delivery							
Relinquished by Sampler: Maghera Shaw	Date Time: 02/21/13 1455	Received By: JES	Relinquished By: JES	Date Time: 2/22	Received By: Renee Sam		
Received By: JES	Date Time: 02/22/13 1430	Received By: Renee Sam	Relinquished By: 4	Date Time: 2/22	Received By: 4		
Relinquished by: 5	Date Time: —	Received By: 5	Custody Seal #: —	Preserved where applicable: <input type="checkbox"/> Yes <input type="checkbox"/> No	On Ice: <input type="checkbox"/>	Cooler Temp: <input type="checkbox"/>	



CHAIN OF CUSTODY

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500 Ambassador Caffery Pkwy. Suite, LA 70583
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PAGE 4 OF 4

Accutest, Inc.
200 Ambassador Center Parkway

Conf: EA 70181-8344
CIS: 12-07-475

Subcontractor: VICKY PUSHKOVA
ACCUTEST LABORATORIES
225 US HIGHWAY 130

DAYTON, NJ 08810

Fax: 470-9173 7250 5150

CHAIN-OF-CUSTODY RECORD

Page 1 of 5

Company: SEMS, INC
Project Manager: Jackson, Amy K
Project Name: 207-0016
QC Level: LVL4
Requested State: Louisiana

JB29805

TEL: (732) 329-0200

FAX: (732) 329-3499

25-Feb-13

Add #

Sample ID	Client Sample	Matrix	Collection Date	One Date	SW3005	SW3010A	SW6020	Requested Tests
L0026284-01A	- 1	BC-07	Water	02/18/13 9:29	03/07/13			
L0026284-01A	- 1	BC-07	Water	02/18/13 9:29	02/26/13			
L0026284-02A	- 2	DW-04	Water	02/18/13 10:31	03/07/13			
L0026284-02A	- 2	DW-04	Water	02/18/13 10:31	02/26/13			
L0026284-03A	- 3	BC-19	Water	02/18/13 10:54	03/07/13			
L0026284-03A	- 3	BC-19	Water	02/18/13 10:54	02/26/13			
L0026284-04A	- 4	BC-25	Water	02/18/13 11:52	02/26/13			
L0026284-04A	- 4	BC-25	Water	02/18/13 11:52	02/26/13			
L0026284-05A	- 5	MW-3	Water	02/18/13 12:23	03/07/13			
L0026284-05A	- 5	MW-3	Water	02/18/13 12:23	C2/26/13			
L0026284-06A	- 6	MW-5	Water	02/18/13 13:25	03/07/13			
L0026284-06A	- 6	MW-5	Water	02/18/13 13:25	02/26/13			
L0026284-07A	SOUTH WELL	Water	02/18/13 14:15	03/07/13				
L0026284-07A	SOUTH WELL	Water	02/18/13 14:15	02/26/13				
L0026284-08A	- 8	BC-01	Water	02/19/13 9:04	03/07/13			
L0026284-08A	- 8	BC-01	Water	02/19/13 9:04	02/26/13			
L0026284-09A	- 9	BC-12	Water	02/19/13 9:35	03/07/13			
L0026284-09A	- 9	BC-17	Water	02/19/13 9:35	02/26/13			

Comments: TOTAL DISSOLVED METALS: SEE ATTACHED LIST REPORT IN SIGN. PROVIDE TERRABASE.EDD WITH FINAL REPORT & FULL ED REPORT. Please contact Amy Jackson for questions (800-304-5227). Please issue a full PDF report by e-mail (including COC documentation) to amyj@accutest.com

See Attached

CHCEKED FEB 26 2013

Relinquished by: C. B. Elix
Relinquished by: Felix

Date/Time:
2/26/13 9:35

Received by:
Felix

Date/Time:
2/26/13 10:33
C. B. Elix 10:33
S. H.

ALL SAMPLES RECEIVED
PRESERVED AS APPROPRIATE

JB29805: Chain of Custody
Page 1 of 7

Accutest, Inc.
509 Antioch Drive Parkway

St. L A 6251-BS44
15471-237-4725

Subcontractor: VICKY PUSHKOVA
ACCUST LABORATORIES
2205 US HIGHWAY 130

DAYTON, NJ 08810

CHAIN-OF-CUSTODY RECORD

Page 2 of 3

Company: SEMS, INC.
Project Manager: Jackson, Amy K
Project Name: 207-0016
OCLevel: I VL4
Requested State: Louisiana

TEL: (732) 329-0200
FAX: (732) 329-3499

Act#:

JB29805

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	SW3605	SW3010A	SW6020	Requested Tests
LU026284-10A	NORTH WELL	Water	02/18/13 10:08	03/07/13			1	
LU026284-10A	NORTH WELL	Water	02/18/13 10:08	02/28/13		1		
LU026284-11A	BC-21R	Water	02/19/13 10:39	02/27/13			1	
LU026284-11A	BC-31R	Water	02/19/13 10:39	02/28/13			1	
LU026284-12A	BA-09	Water	02/19/13 11:38	03/07/13			1	
LU026284-12A	BA-09	Water	02/19/13 11:38	02/28/13		1		
LU026284-13A	BA-09A	Water	02/19/13 12:26	03/07/13			1	
LU026284-13A	BA-09A	Water	02/19/13 12:26	02/28/13		1		
LU026284-14A	WW-09	Water	02/19/13 13:20	03/07/13			1	
LU026284-14A	WW-09	Water	02/19/13 13:20	02/28/13		1		
LU026284-15A	MW-04	Water	02/19/13 14:31	03/07/13			1	
LU026284-15A	MW-04	Water	02/19/13 14:31	02/28/13		1		
LU026284-16A	BC-33	Water	02/20/13 10:11	03/07/13			1	
LU026284-16A	BC-03	Water	02/20/13 10:11	02/28/13		1		
LU026284-17A	WW-04	Water	02/20/13 10:46	03/07/13			1	
LU026284-17A	WW-04	Water	02/20/13 10:46	02/28/13		1		
LU026284-18A	WELL	Water	02/20/13 10:55	03/07/13			1	
LU026284-18A	WELL	Water	02/20/13 10:55	02/28/13		1		

Comments: (b) (6)
TOTAL DISSOLVED METALS - SEE ATTACHED LIST REPORT IN NG1. PROVIDE TERRABASE EDD WITH TINAJ REPORT & FULL T1 REPORT - Please contact Amy Jackson for questions (RM-1-04-5227). Please issue a full PDF report by e-mail (including COC documentation) to amy.j@accutest.com

CHECKED FEB 26 2013

Relinquished by:	<i>Alex</i>	Date/Time:	<i>2/27/13</i>	Received by:	<i>Filex</i>	Date/Time:	<i>2/27/13</i>
Relinquished by:	<i>Felix</i>			Received by:	<i>Filex</i>		
<i>SAMPLES RECEIVED PRINTED ON 2/27/2013 BY CA.LL</i>							

JB29805: Chain of Custody

Page 2 of 7

Accutest, Inc.
300 Ambassador Letters Parkway

St. Cath L.A. 0352-2544
(732) 239-4775

Subcontractor: **VICKY PUSMIKOVA**
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

DAYTON, NJ 08810

CHAIN-OF-CUSTODY RECORD

Page 3 of 5

Company: SEMS, INC.
Project Manager: Jackson Amy K.
Project Name: 207-0018
QC Level: LVL4
Requested State: Louisiana

1329805

TEL: (732) 329-0200

FAX: (732) 329-3499

Acct #:

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	SW3006	SW3010A	SW3020	Requested Tests
L0026284-19A - 17	BS-C1A	Water	02/20/13 13:21	03/07/13		1		
L0026284-19A	BS-01A	Water	02/20/13 13:21	03/07/13				
L0026284-20A - 2C	BA-01	Water	02/20/13 14:02	03/07/13		1		
L0026284-20A	BA-01	Water	02/20/13 14:02	02/28/13		1		
L0026284-20A - 2C	BA-01	Water	02/20/13 14:02	03/07/13		1		
L0026284-20B	BA-01	Water	02/20/13 14:02	02/28/13	1			
L0026284-21A - 27	DW-01	Water	02/20/13 14:40	02/07/13		1		
L0026284-21A	DW-01	Water	02/20/13 14:40	02/28/13		1		
L0026284-22A - 27	PW-04	Water	02/20/13 15:03	02/07/13		1		
L0026284-22A	PW-04	Water	02/20/13 15:03	02/28/13		1		
L0026284-23A - 27	DW-02	Water	02/20/13 15:32	03/07/13		1		
L0026284-23A	DW-02	Water	02/20/13 15:32	02/28/13		1		
L0026284-24A - 27	BA-05	Water	02/20/13 16:24	03/07/13		1		
L0026284-24A	BA-05	Water	02/20/13 16:24	02/28/13		1		
L0026284-25A - 27	BA-05A	Water	02/20/13 17:08	03/07/13		1		
L0026284-25A	BA-05A	Water	02/20/13 17:08	02/28/13		1		
L0026284-26A - 27	MW-A	Water	02/20/13 17:40	03/07/13		1		
L0026284-26A	MW-A	Water	02/20/13 17:40	02/28/13		1		

Comments: TOTAL DISSOLVED METALS - SEE ATTACHED LINE REPORT IN MG/L. PROVIDE TERRABASE EDD WITH FINAL REPORT, & FULL JT REPORT. Please contact Amy Jackson for questions (800-204-5227). Please issue a full PDF REPORT by e-mail (including COC documentation) to amy.j@accutest.com

CHECKED FEB 25 2013

Relinquished by:	<i>Cherie</i>	Date/Time:	<i>2/25</i>	Received by:	<i>FedEx</i>	Date/Time:	<i>2/26/13 10:30</i>
Relinquished by:	<i>FedEx</i>	Date/Time:	<i>2/26/13 10:30</i>	Received by:	<i>Shelley</i>	Date/Time:	<i>2/26/13 10:30</i>

JB29805: Chain of Custody
Page 3 of 7

Accutest, Inc.
100 Ambassador Caffey Parkway

Stock LA 70537 #544
(337) 217-4275

Subcontractor: **VICKY PUSHKOVA**
ACCUTEST LABORATORIES
2235 US HIGHWAY 130

CHAIN-OF-CUSTODY RECORD

Page 4 of 3

JB29805

Company: SEMS, INC
Project Manager: Jackson, Amy K
Project Name: 207-0016
QC Level: LVL4
Requested State: Louisiana

DAYTON, NJ 07810

Acute

25-Feb-13

Sample ID	Client Sample	Matrix	Collection Date	Due Date	SW3005	SW3016A	SW4020	Requested Tests
LOC26284-27A	-28	DW-01	Water	02/20/13 18:20	03/07/13			
LOC26284-27A	-27	DW-01	Water	02/20/13 18:20	02/26/13			
LOC26284-27B	-21	DW-01	Water	02/20/13 18:20	03/07/13			
LOC26284-27B	-21	DW-01	Water	02/20/13 18:20	02/28/13			
LOC26284-28A	-30	MW-01	Water	02/21/13 8:18	03/07/13			
LOC26284-28A	-30	MW-01	Water	02/21/13 8:18	02/26/13			
LOC26284-29A	-31	BA-C3A	Water	02/21/13 8:53	03/07/13			
LOC26284-29A	-31	BA-C3A	Water	02/21/13 8:53	02/26/13			
LOC26284-30A	-32	BA-03	Water	02/21/13 9:11	03/07/13			
LOC26284-30A	-32	BA-03	Water	02/21/13 9:11	02/26/13			
LOC26284-31A	-33	MW-02	Water	02/21/13 9:28	03/07/13			
LOC26284-31A	-33	MW-02	Water	02/21/13 9:28	02/26/13			
LOC26284-32A	-34	DUPLICATE #1	Water	02/18/13 0:00	03/07/13			
LOC26284-32A	-34	DUPLICATE #1	Water	02/19/13 0:00	02/26/13			
LOC26284-33A	-35	DUPLICATE #2	Water	02/19/13 0:00	03/07/13			
LOC26284-33A	-35	DUPLICATE #2	Water	02/19/13 0:00	02/26/13			
LOC26284-34A	-36	DUPLICATE #3	Water	02/20/13 0:00	03/07/13			
LOC26284-34A	-36	DUPLICATE #3	Water	02/20/13 0:00	02/26/13			

Comments: TOTAL DISSOLVED METALS - SEE ATTACHED LIST REPORT IN MO-1. PROVIDE TERRABASE LUD WITH FINAL REPORT, & FNU1, II REPORT. Please contact Amy Jackson for questions (800-704-5217). Please send a full PDF report by e-mail (including COC documentation) to amyj@accutest.com.

④ CHECKED FEB 26 2013

Relinquished by:	<i>E. Jackson</i>	Date/Time:	<i>2/25</i>	Received by:	<i>E. Jackson</i>	Date/Time:	<i>2/26/13 10:32</i>
Relinquished by:	<i>E. Jackson</i>	Date/Time:	<i>2/26/13 10:32</i>	Received by:	<i>S. Jilg</i>	Date/Time:	<i>2/14/13 10:32</i>

ALL SAMPLES RECEIVED
PRESERVED AS APPLICABLE

JB29805: Chain of Custody
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ATTACHMENT E

**LEVEL IV DATA PACKAGE
(VOLUME II OF II)**

CD ATTACHED